

Experience Theater in Your Home

Audio/Video Products 2003

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Our Premium Digital Philosophy

If you're going after a superior home theater experience, Onkyo can help you get there in a hurry.

Ever since Onkyo began producing precision audio parts over a half-century ago, the Onkyo team—product planners, designers, engineers, assemblers—have had one goal: to bring you components that are superbly designed and built to a consistently higher standard of excellence.

This tradition of quality uniquely positions Onkyo to meet the demanding requirements of today's digital revolution. While other manufacturers race to build components designed to meet ever cheaper prices, we follow a different approach: get the basics right, leave off the frills, pay attention to details, and use only the best parts. Even before hearing our components you can see that they're built better.

We're working to set a *de facto* standard for quality in the A/V industry. That's why all of our production facilities are ISO 9001 certified—to meet or exceed the highest international manufacturing standards—to give you that unmistakable Onkyo quality. It's all part of our *Premium Digital* approach.

For a taste of this *Premium Digital* philosophy, read on. For the real thing, go to your Onkyo dealer and listen. You'll hear precisely how far the others have to go.

Premium Digital
Onkyo Home Theater

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TX-DS989 Ver2 **Integra**

THX® Ultra2 7.1-Channel A/V Surround Home Theater Receiver with THX® Surround EX™



The lesser-used controls are neatly tucked away behind the drop-down panel



THX THX SURROUND EX **dts** 96/24 NEOS DOLBY DIGITAL EX PRO LOGIC 192/24 WRAT WIDE RANGE AMP TECHNOLOGY MPEG Multichannel (ZONE2) CORDS

When you imagine your ultimate home theater, what do you see? A receiver at the center that has the latest features? No more worries about it becoming obsolete? Well, stop imagining and take a look at the TX-DS989 Ver2. In this surround receiver, Onkyo has answered the challenge to do the impossible—make its state-of-the-art flagship receiver even better. When we designed this receiver, we paid attention to what you wanted and delivered on our promise of “future proof.” Here you’ll find the latest formats—THX® Ultra2, DTS® 96/24, Dolby® Digital EX™—for even more realistically enveloping sound delivered by the highest quality parts available, like 192 kHz/24-bit AKM DACs for ALL channels. A lot of hard work goes into making movies and music. This is how you can show your appreciation. The TX-DS989 Ver2—designed for your needs and specifications.



Onkyo's commitment to providing you with the latest and greatest in home theater continues with UPG-2. This upgrade package, designed for the TX-DS989, consists of a “Who’s Who” in home theater. You get THX® Ultra2 certification, Dolby® Digital EX™ and DTS® 96/24 to take your movies and music to unmatched levels of visual and sonic enjoyment.



Premium Digital Surround Receivers—The Right Start for Your Home Theater

At Onkyo, Our Mission is Simple

The definition and redefinition of what A/V components should sound like. In doing this, over the last 50 years we've built a reputation for the finest sounding products. And when your name means “sound” in Japanese, there's quite a burden to deliver. The burden is not sound that can be simply rated in watts or by a number on the volume display. But rather, sound that can be felt when you close your eyes and relax—when you listen to the subtlest opera or to thunderous space battles. To describe our unique sound in Japanese, we've coined the term “Kai On Shi-tsū.” The cumulative result of innovations like WRAT (Wide Range Amplifier Technology), VLSC (Vector Linear Shaping Circuitry) and other sound-enhancing exclusives powered by a High Current Power Supply (H.C.P.S.) transformer that only Onkyo can give you. Translated, “Kai On Shi-tsū” means, “sound harmony.” We're sure you'll term it the best sound you've ever heard—and felt.

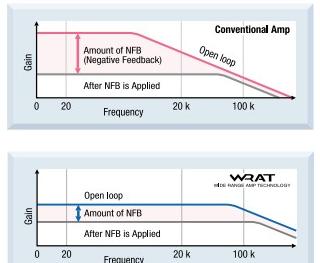
The Technology that Sets Us Apart from Others

Imagine turning up the volume and filling your entertainment room with noise-free, distortion-free, impressively powerful, true-to-life sound. That's the benefit you get from Onkyo exclusives such as Wide Range Amplifier Technology (WRAT), Vector Linear Shaping Circuitry (VLSC) and a massive, High Current Power Supply (H.C.P.S.) transformer. Originally developed for our most expensive high-end amplifiers to handle the ever-increasing sonic demands of today's digital age, you'll now find these even in our lower-priced A/V receivers.

3 Significant Benefits You Get from WRAT

WRAT
WIDE RANGE AMP TECHNOLOGY

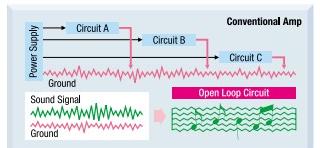
Benefit 1: Uncommonly Low Negative-Feedback Design—so you'll enjoy cleaner sound on program peaks



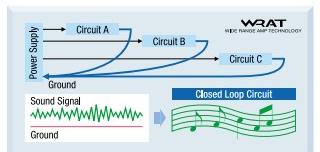
Although NFB (negative feedback) is the most cost-effective way to reduce noise at lower frequencies, there's a sonic price to pay: larger amounts of NFB severely inhibit an amplifier's transient response—the ability to respond to large signal gains (e.g. explosions and musical finales)—and actually distort sound at high frequencies.

That's why our engineers use a low negative-feedback design, with audiophile-grade, close-tolerance components at critical points in the signal path, to achieve a frequency response out to 100 kHz. That means you can fully enjoy the sonic benefits from such high-resolution formats as DVD-Audio and Super Audio CD as well as your regular CDs and DVDs.

Benefit 2: Closed Ground-Loop Circuits—so you'll enjoy greater maximum volume without distortion



If an amplifier's ground potential (voltage) fluctuates during playback of movie soundtracks or musical performances, you wind up with unpleasant noise. In an open-loop circuit design, all circuits are connected to the power supply via one loop. If all circuits share the same loop (like on many amplifiers), the noise multiplies exponentially. Onkyo's sophisticated closed-circuit design allows each circuit to go and



return directly to the power supply. This cancels any individual circuit noise, and keeps the ground potential free of distortion.

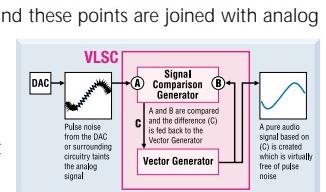
Benefit 3: High Instantaneous-Current Capability—so you'll enjoy film soundtracks with greater impact

Audio signals are very complex. After the amplifier outputs such signals to a speaker, the speaker itself accumulates energy. When the speaker reflexes, it sends energy back to the amplifier. The amplifier must immediately be able to supply a large amount of high current to cancel the speaker's reflex energy, and instantaneously send out the next signal. The same high current is also necessary to handle speaker impedance fluctuations, which on occasion force an amplifier to provide four to six times its usual current load.

The instantaneous current capability of even Onkyo's least expensive WRAT receivers is far better than that of most conventional units. This is because competing designs commonly have less than half the current capability. The result? The high-current capability incorporated into all Onkyo receivers means your receiver can deliver movie soundtracks with theater-like dynamics and clarity—so you'll get the same exciting sonic slam that you experienced in the theater.

Vector Linear Shaping Circuitry (VLSC)

Conventional D/A conversion methods reduce digital pulse noise at the conversion stage but can't remove it completely. Previously only found on Onkyo's high-end components, VLSC (Vector Linear Shaping Circuitry) employs a unique D/A conversion circuit to overcome this problem. Data is converted between sampling points and these points are joined with analog vectors in real-time to produce a smooth output wave form. The result—a virtually noiseless, smooth analog signal based on the digital source, that brings out even the most subtle of nuances in your music, movie soundtracks and even MP3s!



High Current Power Supply (H.C.P.S.) Transformer



Watts, watts, watts—that's all those other makers can talk about. If you want to see where real power comes from, pop the hood on any Onkyo receiver (actually, you can't “pop” it off—the anti-resonant cover is securely fastened to the thick-gauge reinforced-steel chassis by multiple machine screws to resist vibration). Under the hood, you'll instantly notice the High Current Power Supply (H.C.P.S.) transformer. This transformer incorporates a huge isolated power supply design that, working in tandem with our high-capacity filter capacitors, ensures you'll always have ready the large amounts of instantaneous high-current power necessary for reproducing the wide dynamics of movie soundtracks and the detail and clarity of your music.



TX-NR900E **Integra**

THX® Select 7.1-Channel A/V Surround Home Theater Receiver with THX® Surround EX™



Onkyo has made a history of providing you with the latest innovations in home entertainment. Our products have been on the cutting edge of home theater evolution—from the beginnings of surround sound to today's 5.1, 6.1 or even 7.1-channel systems. Now we've raised the standard again as the home theater receiver evolves from home entertainment to home network. The TX-NR900E isn't just another receiver, it's the centerpiece of your home digital network. Feel the power from the world's first Internet radio capable home theater receiver with connectivity provided through a state-of-the-art Ethernet port located on the back*. Utilizing Onkyo's exclusive Net-Tune™ protocol, the TX-NR900E serves as your gateway to virtually limitless selections of music. And of course the TX-NR900E comes with the latest in decoding with Dolby® Digital EX™, DTS®-ES™, DTS® 96/24 and THX® Surround EX™. Inside, you'll also find the parts that have made Onkyo synonymous with quality home electronics: massive power transformers, logically laid out circuit boards and precise 192 kHz/24-bit D/A converters for each main channel. In addition, THX® Select certification further confirms you're getting the finest receiver build possible. Don't just take our word for it, plug yourself in and find that the proof is in the performance.

- 150 W/Ch, Continuous 6 Ω, 1 kHz, DIN
- THX® Select Certified
- THX® Surround EX™, DTS®-ES™ Discrete/Matrix 6.1, DTS® Neo:6, DTS® 96/24, Dolby® Digital EX™, Dolby® Pro Logic™ II
- VLSC (Vector Linear Shaping Circuitry) (L/C/R)
- Net-Tune™ Function with MP3/WAV/WMA Decoding
- Ethernet Cable Plug-In Capability
- High-Precision 32-Bit Dual DSP Chips
- 192 kHz/24-Bit DAC x 6
- 2 Wideband Component-Video Inputs and 1 Output
- Powered Zone 2 and 12 V Trigger
- RS-232 Terminal for Control
- A-Form Listening Mode Memory
- Color-Coded Dual Banana Plug Compatible Speaker Posts
- Crossover Adjustment (80/100/120 Hz)
- Backlit/Preprogrammed & Learning Remote with Mode-Key LEDs



Net-Tune™—Bring a World of Music into Your Home

What is Net-Tune?

Do you have MP3, WAV, or WMA files on your computer? Add new life to the existing content in your computer and enjoy it in surround sound glory. With the TX-NR900E connected to your computer via a broadband router, you can easily access all your computer's music files. Simply download Net-Tune™ to your PC and, through the Net-Tune™ Central application, you're ready to truly fill your room with music. If you've already upgraded to a broadband Internet connection, then there are even more possibilities for you. Have the urge to hear pop music from Japan or the latest songs soaring up the American charts? How does instant access to radio stations around the world sound to you? Well, it's possible through the mini-revolution in the music world called Internet radio. The process is simple. Hook up your TX-NR900E to a router connected to your broadband modem via a high-speed Ethernet cable*. Press the Net Audio button on the front of your receiver and you'll be welcomed to a world of music in your home through Internet radio.

Net-Tune™ Central**

Your media distribution software. Up to now, you may have looked upon your PC as a means of sending e-mail, making spreadsheets and playing the occasional game but when it came to music, the sound was second best. Now Onkyo can add astounding depth to your hard drive's MP3, WAV or WMA music files. Simply download Net-Tune™ Central to your PC and your music files will be liberated from the limitations of your computer's speakers. Hook your PC up to a router and then connect your TX-NR900E for fast and easy access to your computer's music files. Now you have transformed your computer into a music server ready to deliver sound throughout your room.



Internet Radio

Perhaps you've been wondering how your kids are getting radio reception from Asia. Or how your roommate always seems to find those great stations you can't find on the radio. What's the secret? It's not coming from your local FM/AM tuner. It's coming from the Internet. Even if you're an old pro at surfing the airwaves of cyberspace, the benefits of Internet radio will continue to amaze you. No longer are you limited to local access. Now you have the freedom of the kind of music you want to hear when you want to hear it. The drawback? Until now this has been limited to the audio playback capability of your computer and its speakers. We're sure you'll agree with us when we say your music deserves more.



Dot Matrix and TV On-Screen Display

All of this musical potential means nothing if you can't get to it. Using the Net-Tune™ Central software and the on-screen display capabilities of the TX-NR900E, accessing your PC's music files is a breeze. Simple, well-thought-out screens let you choose from among artists, genres, albums, playlists, and individual tracks. The on-screen display also works with Internet radio, so you'll always know what station, artist and song you're currently listening to. Don't have the TV on? Don't worry, the large display on the front of the TX-NR900E will provide details on your favorite songs. This way you can listen to the kind of music you want, when you want.

Minimum Internet Connection Requirements:

- Broadband Internet service
- DHCP (Dynamic Host Configuration Protocol) based network (requires a DHCP-enabled router)
- 100Base-TX switch built-in broadband router (recommended)

Minimum PC System Requirements:

600 MHz Intel Pentium III CPU or better; Windows® 98SE, Me, 2000, or XP OS (operating system); more than 20 MB of free hard disk space; RAM (128 MB for Windows® 98SE/Me/2000 and 256 MB for XP); and Ethernet port. Not compatible with Macintosh systems.



* For copyright protection purposes, it is not possible to make a digital output signal from Ethernet input signals.

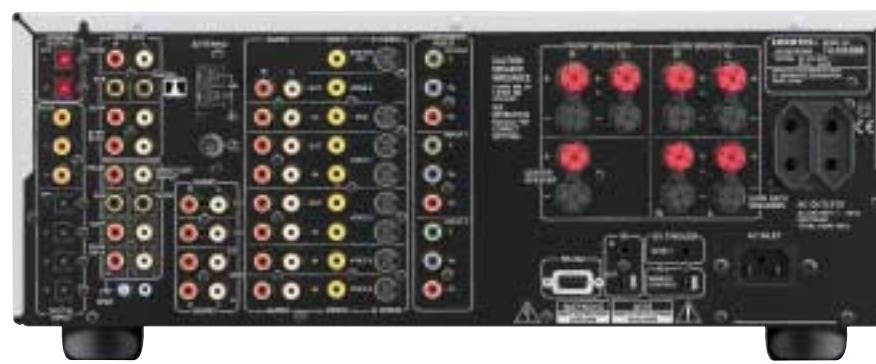
** For copyright protection purposes, Net-Tune™ Central is not for use with clients that do not feature the Net-Tune™ logo.

TX-DS898 **Integra**

THX® Select 7.1-Channel A/V Surround Home Theater Receiver with THX® Surround EX™



A digital input, A/V & S-video inputs and the lesser-used controls are neatly tucked away behind the drop-down panel



THX SURROUND EX **dts ES** **DOLBY DIGITAL EX PRO LOGIC II** **WRAT** **192/24** **WIDE RANGE AMP TECHNOLOGY** **Theater-Dimensional** **COR.D.S**

Presenting the remarkable new TX-DS898, a home-theater centerpiece whose 7.1 independent channels of high-current, ultrawide-bandwidth equal-power and thoughtful features are the result of a single-minded approach to its engineering and design—namely, to provide you with a home-entertainment experience that is nothing short of extraordinary. Here's a short list of what you can expect: 7.1-channels and THX® Surround EX™ decoding to take you and your audience to a new level of soundtrack-sonic excitement, a "pure-audio" mode that turns off the display and video circuitry to provide the cleanest audio signal possible, Powered Zone 2 to let you enjoy different sources (audio or video) in two rooms simultaneously, an assignable 12-volt trigger to switch on a Zone 2 amplifier, an RS-232 port to easily interface with whole-house control systems from such companies as Amx® (Panja), Crestron® and others, and an astonishingly versatile touchscreen LCD remote that will put you in command as never before.

- 150 W/Ch, Continuous 6 Ω, 1 kHz, DIN
- THX® Surround EX™ and THX® Select Certified
- 7.1-Channel Amplifier
- DTS®-ES™ Discrete/Matrix 6.1, DTS® Neo:6, Dolby® Pro Logic™ II
- 192 kHz/24-Bit DAC x 6
- Ready for HDTV, Progressive-Scan DVD, DVD-Audio and Super Audio CD
- 2 Wideband Component-Video Inputs and 1 Output
- 8 Digital Inputs (5 Optical/3 Coaxial; 7 Assignable) and 2 Outputs
- Composite to S-Video Conversion
- Powered Zone 2 and 12 V DC Trigger
- RS-232 Terminal for Control and Software Upgrading
- A-Form Listening Mode Memory

TX-SR701E

THX® Select 6.1-Channel A/V Surround Home Theater Receiver with THX® Surround EX™



Time to Get Rid of All Those Other Remotes!

- Unique Universal Learning Remote Control
- Large, Bright Touchscreen Display
- Fully Customizable to Your Individual Needs & Tastes
- Direct-Access Buttons for Frequently Used Functions
- Replaces All Other Remotes
- Total Control of Infrared-Based Electronic Devices
- Bright Backlighting
- Programmable, Editable Macros & Timers
- Elegant, Intuitive Interface



THX SURROUND EX **dts ES** **DOLBY DIGITAL EX PRO LOGIC II** **WRAT** **192/24** **WIDE RANGE AMP TECHNOLOGY** **VL** **VECTOR LINEAR SHAPING CIRCUITRY** **COR.D.S**

Inheriting the characteristics that made its predecessor one of Onkyo's best-built receivers, the TX-SR701E now adds the guarantee of build and sound excellence that can only come from THX® certification. The TX-SR701E is also ready for the rigors of a high-definition world, with an impressive array of inputs and outputs combined with smooth high bandwidth capability. Also, this model is prepared to handle all your entertainment needs, with the latest decoding formats such as Dolby® Digital EX™, DTS®-ES™ and DTS® 96/24. A new H.C.P.S. (High Current Power Supply) transformer serves as the cornerstone to provide the power needed to run this impressively built receiver. Combine this with the sonic excellence that only Onkyo can give you—courtesy of VLSC (Vector Linear Shaping Circuitry) and WRAT (Wide Range Amplifier Technology)—and a rugged, non-resonant chassis, and you have a receiver for those serious about their sound.

- 130 W/Ch, Continuous 6 Ω, 1 kHz, DIN
- THX® Select Certified
- THX® Surround EX™, DTS®-ES™ Discrete/Matrix 6.1, DTS® Neo:6, DTS® 96/24, Dolby® Digital EX™, Dolby® Pro Logic™ II
- VLSC (Vector Linear Shaping Circuitry) (L/C/R)
- 192 kHz/24-Bit DAC x 6
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- Ready for HDTV, Progressive-Scan DVD, DVD-Audio and Super Audio CD
- 2 Wideband Component-Video Inputs and 1 Output
- 4 Digital Inputs (3 Optical/1 Coaxial; 3 Assignable)
- 2 Digital Outputs (1 Optical/1 Coaxial)
- Powered Zone 2 and 12 V Trigger
- A-Form Listening Mode Memory
- 32-Bit Dual DSP Chips
- On-Screen Display
- Color-Coded Dual Banana Plug Compatible Speaker Posts
- Crossover Adjustment (40/60/80/100/120/150 Hz)
- Backlit/Preprogrammed & Learning Remote with Macros and Mode-Key LEDs

TX-SR601E

6.1-Channel A/V Surround Home Theater Receiver



Built on the foundation of Onkyo quality, the TX-SR601E provides an all-encompassing home entertainment experience to bring out the best in your movies and music. Quality amplification is the key to pure audio enjoyment. The TX-SR601E provides not only a pulse-pounding 120 watts of power, but also Onkyo exclusives such as WRAT (Wide Range Amplifier Technology). These work with the latest sound formats, such as Dolby® Digital EX™, DTS®-ES™ and DTS® 96/24, to create a truly diffuse sound field. All of this power is provided by a newly designed High Current Power Supply (H.C.P.S.) transformer to anchor an impressively built receiver that stands above the competition. Combine this with user-friendly features such as color-coded inputs and outputs, crossover adjustment for bass management and quality build featuring a sturdy Absolute Ground Plate and bus bars, and you have a new definition of what "industry standard" means.

- 120 W/Ch, Continuous 6 Ω, 1 kHz, DIN
- DTS®-ES™ Discrete/Matrix 6.1, DTS® Neo:6, DTS® 96/24, Dolby® Digital EX™, Dolby® Pro Logic™ II
- VLSC (Vector Linear Shaping Circuitry) (L/C/R)
- 192 kHz/24-Bit DACs x 6
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- 10 Hz-100 kHz Extended Frequency
- 2 Wideband Component-Video Inputs and 1 Output
- CinemaFILTER™
- Powered Zone 2
- A-Form Listening Mode Memory
- 32-Bit Dual DSP Chips
- On-Screen Display
- Dot Matrix FL Display
- Color-Coded Dual Banana Plug Compatible Speaker Posts
- Crossover Adjustment (60/80/100/120/150 Hz)
- Preprogrammed & Learning Remote with Macros and Mode-Key LEDs

TX-SR501E

6.1-Channel A/V Surround Home Theater Receiver



With the TX-SR501E, Onkyo has forever redefined how you will look at an entry-level home theater receiver. Those new to home theater will breathe a sigh of relief due to the user-friendly design, which incorporates color-coded inputs and outputs, a logically laid-out front panel and an easy-to-use remote control. Those looking to upgrade their current home theater receiver will be impressed with 6.1-channels, powered by a newly designed transformer to give you the all-enveloping surround sound of Dolby® Digital EX™ and DTS®-ES™, combined with Onkyo exclusives like WRAT (Wide Range Amplifier Technology) and CinemaFILTER™ to yield the smoothest sound at any volume. Add on a pair of wideband component video inputs and an output and you have an entry-level receiver ready to take care of the demands of today and the future.

- 85 W/Ch, Continuous 6 Ω, 1 kHz, DIN
- DTS®-ES™ Discrete/Matrix 6.1, DTS® Neo:6, Dolby® Digital EX™, Dolby® Pro Logic™ II
- 96 kHz/24-Bit DACs for All Channels
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- WRAT (Wide Range Amplifier Technology) for DVD-Audio and Super Audio CD
- 2 Wideband Component-Video Inputs and 1 Output
- 4 S-Video Inputs and 2 Outputs
- 3 Digital Inputs (2 Optical/1 Coaxial; 3 Assignable)
- CinemaFILTER™
- Optimum Gain Volume Circuitry
- "Easy-Set" Speaker Configuration
- Dot Matrix FL Display
- Color-Coded Dual Banana Plug Compatible Speaker Posts
- Crossover Adjustment (60/80/100/120/150 Hz)
- RI-Compatible Remote Control

Premium Digital DVD Players—Your Ticket to High-End Image & Sound Quality

ExperienCinema™ (DV-SP800, DV-SP500)

Our over 50 years of expertise in Imaginative Sight & Sound allow you to experience pure listening and viewing pleasure through our ExperienCinema™ concept. Onkyo not only provides you with the highest picture quality available, but also audiophile-quality sound from 192 kHz/24-bit D/A converters and Onkyo exclusives like Direct Digital Path. All of this adds up to a truly astounding sight and sound experience. ExperienCinema™—the way it was meant to be.



192 kHz/24-Bit Audio DACs

Performing at a full 192 kHz/24-bit level of resolution, these state-of-the-art D/A converters deliver audio performance that is second to none. They boast a higher dynamic range than standard D/A converters, and are virtually resistant to clock jitter—which means you'll enjoy the best performance possible from DVD-Audio discs, and cleaner sound from your regular DVDs and CDs.



Exclusive Direct Digital Path

Unlike other DVD players that use inexpensive PC-board copper traces to transfer the digital audio signal, Onkyo DVD players employ a high-purity, heavy-gauge, shielded cable to directly output the 96 kHz/24-bit digital bitstream straight from the disc to the back panel. This protects the audio signal against potential noise from nearby microprocessors and power supplies. So if you use the optical or coaxial digital output to send multichannel Dolby® Digital and DTS® to your compatible receiver, you're starting off with the cleanest possible signal.



Vector Linear Shaping Circuitry (VLSC) (DV-SP800, DV-SP500)

From the digital signal a pure analog signal is born. VLSC (Vector Linear Shaping Circuitry) is an Onkyo exclusive previously found only on our high-end components. If you're looking for the purest signal possible you'll get it here. VLSC reduces pulse noise from the digital signal to an absolute minimum to add more depth and clarity to your CDs, movie soundtracks, and even MP3s.



DVD-Audio—Unprecedented Fidelity (DV-S939, DV-SP800)

DVD-Audio's data-loss-free reproduction of 192 kHz/24-bit 2-channel stereo or 96 kHz/24-bit 6-channel surround sound recreates music with such clarity, it sounds as if it were played live in your own home. Add on a super-high frequency rate of 192,000 samples per second—4.3 times greater than an audio CD—and you have a musical experience that goes beyond just listening.



Super Audio CD—Precision Clarity (DV-SP800)

Super Audio CD gives you the next step in the evolution of pristine sound. All channels provide for up to 100 kHz frequency response and a sampling rate of 2.822 MHz—that's 64 times that of a regular CD! A multi-channel Super Audio CD can provide you with up to 6 channels of high-resolution audio in addition to a regular CD layer for playback on any existing CD player.



Video Circuit On/Off Control (DV-SP800, DV-S939)



For the best audio quality possible, you can turn off the video circuitry when using the DV-SP800 or DV-S939 as an audio-only player, eliminating the possibility of interference between the player's video and audio circuitry.

96 kHz/48 kHz Selectable Digital Output (DV-SP800, DV-SP500)

While most DVD players downconvert 96 kHz/24-bit audio to 48 kHz and 20 bits for their digital outputs, the DV-SP800 and DV-SP500 are two of the few mainstream DVD players that can provide a true 96 kHz/24-bit PCM digital audio bitstream through either their digital coaxial or optical TosLink connections. This makes the players ideally suited to Onkyo's latest receivers, which, unlike older receivers, accept 96 kHz bitstreams. If you select the 48 kHz output in the set-up menu, then any DVD audio track containing a 96 kHz signal will be downconverted to 48 kHz by the players for backwards compatibility with older components.

108 MHz/12-Bit Video DAC (DV-SP800)

A crucial factor in achieving clear, pristine digital video playback is the video D/A converter in your DVD player. The state-of-the-art 108 MHz/12-bit video D/A converter featured in the DV-SP800 gives you the

finest artifact-free picture available. Features such as 4x oversampling and Noise Shaped Video (NSV®) dramatically reduce noise interference to the video signal, so you can enjoy even the most subtle of nuances in your favorite movies.

SCART Output

This multi-pinned jack gives you high-quality, single-cable connection to the latest TVs, projectors and monitors. It also brings out the full potential of your DVDs by sending three extremely clean, separate RGB (red, green, and blue) signals to your TV's picture tube, thereby eliminating the usual PAL artifacts, including dot crawl and moiré (wavelike or watered appearance), for stunning color fidelity and virtually no discernible video noise.



Rugged, No-Nonsense Construction

All Onkyo DVD players feature an anti-resonant, heavy-gauge, reinforced-steel chassis to provide greater strength and maximize vibration damping. Large anti-resonant feet help keep shelf-borne vibration from reaching the signal. The heavy-duty power cord delivers optimum power-handling capability, and resists wear and tear over extended long-term use. And the thick-metal faceplate does more than provide long-term elegance—it enhances overall chassis rigidity.



DV-SP800 **Integra**

THX® Ultra Certified DVD-Audio & Video/Super Audio CD/MP3 CD Player



The Choice of Both DVD-Audio and Super Audio CD Sets this DVD Player Apart from the Rest

DVD-Audio, with its rich, enveloping sound from 5.1 channels? Or Super Audio CD, with its frequency response up to 100 kHz and sampling rate of 2.822 MHz? The debate over which provides the purest and smoothest musical experience is still raging. Fortunately, the DV-SP800 lets you make the final decision by providing you choices other companies can only dream about. But it doesn't stop there. Few DVD players on the market meet the rigid standards of THX® Ultra certification: the DV-SP800 not only meets these standards, it exceeds them. Onkyo's exclusive ExperienCinema™ concept provides you with the finest visual and audio experience through Direct Digital Path, 192 kHz/24-bit audio DACs and Vector Linear Shaping Circuitry (VLSC). DVDs are further enhanced with lossless 108 MHz/12-bit D/A video processing. Life is about choices. The DV-SP800 could very well be the last player you'll ever have to choose.

- THX® Ultra Certified
- DTS®, Dolby® Digital Decoders Built In
- Plays DVD-Audio & Video, DVD-Rs*, DVD-RWs*, Super Audio CDs, MP3 CDs, CD-Rs, CD-RWs, Video CDs and Audio CDs
- State-of-the-Art 108 MHz/12-Bit NSV® Video DAC
- 192 kHz/24-Bit Audio DACs
- Direct Digital Path
- VLSC (Vector Linear Shaping Circuitry)
- Optical & Coaxial Digital Outputs for DTS®, Dolby® Digital and PCM
- 96 kHz or 48 kHz Selectable Digital Output
- 2-SCART, S-Video & Composite Outputs
- Progressive Scan
- On-Screen Display (English, French, Spanish, German, Italian)
- Backlit/Preprogrammed & Learning Remote with Macros and Mode-Key LEDs

* Discs that have not been properly finalized may only be partially playable or not playable at all.

DV-S939 **Integra**

THX® Ultra Certified DVD-Audio & Video Player



THX **dts** **DOLBY** **DVD** **192/24** **DISC** **MPEG** **PROGRESSIVE SCAN**

WHAT HI-FI?
SOUND AND VISION

★★★★★
(July Issue 2001)

- THX® Ultra Certified
- Plays DVD-Audio & Video, CD-Rs, CD-RWs, Video CDs and Audio CDs
- 54 MHz/10-Bit Video DAC
- RS-232 Port for Upgrades and Control
- 192 kHz/24-Bit Audio DACs
- DB-25 and 6-Channels RCA Outputs
- 2 Gold-Plated Progressive Component-Video Outputs and 1 SCART Output
- 4 Digital Outputs for DTS®, Dolby® Digital, MPEG and PCM
- Separate Transformers for Digital and Analog Sections
- Electrical and Magnetic Shielded Mechanism
- Heavy-Duty Mechanical Tray Door
- Full-Function Learning Remote Control

This THX® Ultra certified player blends the ultra-high frequency response of DVD-Audio with the video precision that only Onkyo can give you—to take your audio/visual senses to new heights and forever change the way you experience music and movies. Comprehensively designed to perform flawlessly now and well into the future, the DV-S939 is fitted with high-end 192 kHz/24-bit DACs to faithfully reproduce 192-kHz 2-channel stereo, or loss-free 96-kHz 5.1-channel surround sound. There's an RS-232 port for easy upgrades and full home-automation control. And the DB-25 port gives you single-cable multichannel hook-up to receivers like the TX-DS989 Ver.2. Plus, 6-channel RCA outputs, two gold-plated progressive component-video outputs, and four digital outputs give you total connection flexibility. Equally impressive is the DV-S939's build quality. Two oversized transformers keep the power supply separate for the digital and analog sections. And a heavy-duty mechanical tray door and disc tray reduce vibration and provide greater signal purity.

DV-SP500

DVD/CD/MP3 CD Player



dts **DOLBY** **DVD** **MP3** **192/24** **DISC** **ExperienCinema** **VL** **VECTOR LINEAR**

- Plays DVDs, MP3 CDs, CD-Rs, CD-RWs, Video CDs and Audio CDs
- 192 kHz/24-Bit Audio DACs
- Direct Digital Path
- VLSC (Vector Linear Shaping Circuitry)
- Optical & Coaxial Digital Outputs for DTS®, Dolby® Digital and PCM
- 96 kHz or 48 kHz Selectable Digital Output
- SCART, S-Video & Composite Outputs
- Subwoofer/Mono Output
- On-Screen Display (English, French, Spanish, German, Italian)
- Front Panel Cursor Control & Display Dimmer
- Full-Function RI Remote Control

Take your movie and music experience to the next level with the DV-SP500. This DVD/CD/MP3 CD player lets you enjoy the sharpest picture quality without breaking the bank. But it's not only pristine video playback we're providing. In terms of audio enjoyment, 192 kHz/24-bit audio DACs for all channels give incomparable realism to your CDs, CD-Rs, CD-RWs, and even MP3 CDs as well as your DVDs. All this is summed up in our exclusive ExperienCinema™ concept—a guarantee of the highest level of sound and vision possible. Onkyo's exclusive Direct Digital Path transfers the digital signal from your discs to these connections through a high-purity, heavy-duty, shielded cable to deliver a noise-free digital signal. Also, connection to your TV or home theater receiver is a breeze with a handy array of analog and digital outputs—coaxial, optical, S-video, and SCART, they're all here. Just another example of affordable, high-quality performance, brought to you by Onkyo.

Enliven Any Room with Elegant Style and Crisp, Clear Sound



CR-L5, D-052TX

For the music lover who insists on a CD player without sonic compromise, Onkyo introduces the CR-L5. It includes outstanding Onkyo technological features, like WRAT (Wide Range Amplifier Technology) and VLSC (Vector Linear Shaping Circuitry), to give the smoothest sound to room-filling music. To further enhance this CD receiver, Onkyo has forgone the low cost route others may give you. We provide discrete output stage circuitry for enhanced cooling and superior sonics, even when there's a simultaneous demand for high current and high voltage.

CR-L5 **TITANIUM**

Ultra-Slim CD Receiver



(Illustration)

- 50 W/Ch, Continuous 4Ω, 1 kHz, DIN • VLSC (Vector Linear Shaping Circuitry)
- WRAT (Wide Range Amplifier Technology) • New "Home Style Component" Design • High-Current, Low-Impedance Drive • "Direct Mode" Function
- 2 Digital Outputs • Subwoofer Pre Out • A/B Speaker Drive • RI-Compatible Remote Control

D-052TX **BEECH** **BLACK** **OMF**

2-Way, Bass Reflex

- 13 cm OMF Diaphragm Woofer • 2.5 cm Soft-Dome Tweeter • Magnetically Shielded • Banana-Plug Compatible Speaker Terminals • High-Purity Copper Speaker Cable Supplied • MDF Cabinet • 4 Ω Impedance • 70 W Max Input Power • 55 Hz-35 kHz Frequency Response

TX-L5 **TITANIUM**

Ultra-Slim 5.1-Channel Digital Surround Receiver



DIGITAL **dts** **DOLBY** **DIGITAL** **WRAT** **96/24** **RDS**

- 5.1-Channel Amplifier • DTS®, Dolby® Digital, Dolby® Pro Logic™ II • WRAT (Wide Range Amplifier Technology) • Discrete Output Devices for All Channels
- 96 kHz/24-Bit DACs for All Channels • Non-Scaling Configuration • 9 DSP Soundfields • 2-Mode Acoustic Control • 3 Digital Inputs (2 Optical/1 Coaxial)
- 3 S-Video Inputs and 2 Outputs • Subwoofer Pre Out • Tape/MD Dubbing & Video Dubbing • 30 RDS FM/AM Random Presets • FM Auto-Scan Tuning
- Full-Function RI Remote Control

DV-L5 **TITANIUM**

Ultra-Slim DVD/CD Player



dts **DOLBY** **DIGITAL** **DVD** **MP3** **192/24** **DISC**

- Plays DVDs, MP3 CDs, CD-Rs, CD-RWs, Video CDs and Audio CDs • 192 kHz/24-Bit Audio DACs for All Channels • Direct Digital Path • Passes PLUG-E Signals
- Optical & Coaxial Digital Outputs for DTS®, Dolby® Digital and PCM • 96 kHz or 48 kHz Selectable Digital Output • Full Set of A/V Outputs (SCART, S-Video & Composite) • Subwoofer Pre Out • Dynamic Range Control • Last Play Memory (5 DVDs) • Program Memory (24 DVDs) • Condition Memory (15 DVDs)
- On-Screen Display (English, French, Spanish, German, Italian) • Full-Function RI Remote Control

Nobody Does Home Theater Quite Like Us



One of the unwritten rules of home theater used to be that you couldn't have a top-class receiver and a top-class player in the same component. Times sure have changed. Onkyo's all-in-one DR-L50 brings together in a single, sleek case all the crucial elements of home theater: a high-performance 5.1-channel surround amplifier, a versatile multi-media player, and a full range of surround sound decoders. Vector Linear Shaping Circuitry (VLSC) further enhances sound output by dramatically improving the signal-to-noise ratio. Then there are such thoughtful features as Intelligent Power Management (IPM) and color-coded speaker terminals that make it easier than ever for you to enjoy your digital media. The Onkyo DR-L50—proof that some rules are made to be broken.

DR-L50 TITANIUM

DVD/CD Player and 5.1-Channel DTS®/Dolby® Digital/Dolby® Pro Logic™ II Surround Receiver



- 21 W/Ch, Continuous 6 Ω, 1 kHz, DIN
- DTS®, Dolby® Digital, Dolby® Pro Logic™ II
- Plays DVDs, MP3 CDs, CD-Rs, CD-RWs, Video CDs and Audio CDs
- High-Current, Low-Impedance Drive
- VLSC (Vector Linear Shaping Circuitry)
- S-Video Output
- Digital Input and Output
- Subwoofer Pre Out
- SCART Connector
- Color-Coded Speaker Terminals
- Preprogrammed RI Remote Control

D-L5 SILVER BLACK

Bass Reflex Speakers

- 5 Ultra-Small Palm-Sized Satellites
- Full-Range 8 cm OMF Cone
- Heavy-Duty Solid Aluminum Cabinet
- Magnetically Shielded
- Wall or Stand Mountable
- 6 Ω Impedance
- 40 W Max Input Power
- High-Purity Copper Speaker Cable Supplied (Available only in selected markets)

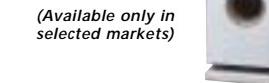


- 21 W/Ch, Continuous 6 Ω, 1 kHz, DIN
- DTS®, Dolby® Digital, Dolby® Pro Logic™ II
- Plays DVDs, MP3 CDs, CD-Rs, CD-RWs, Video CDs and Audio CDs
- High-Current, Low-Impedance Drive
- VLSC (Vector Linear Shaping Circuitry)
- S-Video Output
- Digital Input and Output
- Subwoofer Pre Out
- SCART Connector
- Color-Coded Speaker Terminals
- Preprogrammed RI Remote Control

SL-105 SILVER BLACK

Powered Subwoofer

- 20 cm Long-Stroke Woofer
- High-Quality Built-In 60 W Amplifier
- Discrete Output Stage Circuitry
- Front Panel Volume and Frequency Controls
- Magnetically Shielded
- Reinforced MDF Cabinet



- 21 W/Ch, Continuous 6 Ω, 1 kHz, DIN
- DTS®, Dolby® Digital, Dolby® Pro Logic™ II
- Plays DVDs, MP3 CDs, CD-Rs, CD-RWs, Video CDs and Audio CDs
- High-Current, Low-Impedance Drive
- VLSC (Vector Linear Shaping Circuitry)
- S-Video Output
- Digital Input and Output
- Subwoofer Pre Out
- SCART Connector
- Color-Coded Speaker Terminals
- Preprogrammed, Aluminum-Faced, Learning RI Remote Control

Spacious and Stylish Sound from a Perfectly Matched Home Theater System



With elegance and performance that put it above conventional home-theater-in-a-box systems, the DR-S2.2 stylishly combines a high-quality DVD/CD/CD-RW/Video-CD/MP3 CD player with an exquisitely engineered amplifier and a highly sensitive RDS FM/AM tuner. Onkyo has taken the guesswork out of matching speakers to this piece of art by offering you surround sound performance in the form of palm-sized heavy-duty solid aluminum D-5 bass reflex speakers and booming LFEs from the SL-105 subwoofer. Connecting these speakers is a breeze with Onkyo's user-friendly color-coordinated speaker terminals. But the connectivity doesn't stop there. Hooking up to your TV is done through an array of connections on the back, including a SCART jack—this allows you to hook up to a high resolution plasma or other quality TV, giving added depth and dimension to your DVD videos. The DR-S2.2—accentuate any room with curves to die for and sound to live by.

DR-S2.2 TITANIUM

DVD/CD Player and 5.1-Channel DTS®/Dolby® Digital/Dolby® Pro Logic™ II Surround Receiver



- 21 W/Ch, Continuous 6 Ω, 1 kHz, DIN
- DTS®, Dolby® Digital, Dolby® Pro Logic™ II
- Plays DVDs, MP3 CDs, CD-Rs, CD-RWs, Video CDs and Audio CDs
- High-Current, Low-Impedance Drive
- VLSC (Vector Linear Shaping Circuitry)
- S-Video Output
- Digital Input and Output
- Subwoofer Pre Out
- SCART Connector
- Color-Coded Speaker Terminals
- Preprogrammed, Aluminum-Faced, Learning RI Remote Control

MB-S1 TITANIUM

Ultra-Slim Hard-Disk Music Library



- Record and Playback up to 450 Hours of Music
- Easily Sort Your Music by Genre, Artist, Album, Title or Date
- Create up to 10 Custom Playlists
- Front-Panel USB Port
- 2 Digital Inputs and 1 Optical Output
- 20 GB Silent Audio-Grade HDD
- Fraunhofer IIS MP3 Encoding/Decoding Engine
- Full-Function CD Player Plays MP3 CDs and CD-Rs
- "Carry Tunes" Bundled PC Software
- Separate PC Boards for System Control and DAC
- Full-Function Remote Control

High-End Desktop CD Receiver with USB Port for Playing PC Audio



Quality is something you recognize the moment you experience it. And quality—that sense of solidity, fine workmanship and attention to detail—is the word that best describes this stylish, integrated audio system. Everything from the carefully crafted solid-aluminum front panel and soft-blue LEDs, to the light-touch chrome-plated buttons and critical circuit refinements, to the heavy-duty construction, affirms quality. But to fully understand what really makes this system so unique, simply turn it on. What you hear will surprise you. An amazing clarity of each instrument and voice. Full, rich bass. And all of the little nuances that make music so enjoyable. The CR-N1 also gives you a remarkable array of convenient features, including a USB port for playing PC audio, a line-level input and output for quick, easy, clean connection to a TV, VCR or other analog component, a 2-mode Acoustic Presence function to increase richness and depth, an optical digital output to connect an MD/CD recorder, a highly sensitive RDS FM/AM tuner with 30 presets, a quick-sliding motorized door and unique tray that lets you watch your vertically loaded CD spin, a 3-mode timer, and even a subwoofer output!



HS-N1 TITANIUM

High-End Desktop CD Receiver with Slimline Speakers

CR-N1

High-End Desktop CD Receiver

- 4 Ω Low-Impedance Drive
- USB Port
- 2-Mode Acoustic Presence Function
- 30 RDS FM/AM Random Presets
- FM Auto-Scan Tuning
- 8-Character Alphanumeric Display
- 3-Mode Timer (Weekday, Weekend, Sleep)

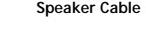
- 3-Mode Repeat (Entire Side, Memory, Random)
- Optical Digital Output
- Line-Level Input & Output
- Subwoofer Pre Out
- Mini-Jack Headphone Output
- Battery-Free Memory Backup
- Full-Function Remote



D-N1

High-End Desktop CD Receiver with Slimline Speakers

- 3-Mode Repeat (Entire Side, Memory, Random)
- Optical Digital Output
- Line-Level Input & Output
- Subwoofer Pre Out
- Mini-Jack Headphone Output
- Battery-Free Memory Backup
- Full-Function Remote



D-N1

2-Way, Bass Reflex

- High Efficiency 9 cm Exclusive OMF (Onkyo Microfiber) Cone Woofer
- Wide Dispersion Neodymium-Powered 2.5 cm Soft Dome Tweeter
- Magnetically Shielded
- MDF Cabinet
- 1 Meter High-Purity-Copper Speaker Cable Supplied (x 2)
- 4 Ω Impedance
- 30 W Max Input Power
- 63 Hz-35 kHz Frequency Response

Fill Your Room with Sound from an Unbelievably Compact yet Powerful System



A complete home theater system in such a compact combo? Hard to believe—yes. Impossible—no, thanks to Onkyo. The size of this combination DVD player and 5.1-channel digital surround receiver may be compact but the list of features will make most full-sized systems envious. Progressive Scan for the highest picture resolution when used with compatible televisions. DTS® and Dolby® Pro Logic™ II decoding to put the accompanying palm-sized satellite speakers to the test. We've even added a perfectly matched subwoofer to elicit the deep impact of your movies and music. With Onkyo's usual generous array of inputs and outputs, you can easily transform any room into a home theater. All of this is yours in a sturdy, unbelievably compact 155 mm body, graced with an elegant aluminum front panel. The L-DR7—perfect for those looking for high-impact, multichannel surround home theater in space-saving dimensions. The size may be minimum, but the sound is definitely maximum.

L-DR7 SILVER

DVD/CD Receiver with Speaker Package

PDR-155

DVD/CD Control Center

- DTS®, Dolby® Digital, Dolby® Pro Logic™ II, PCM
- Plays DVDs, MP3 CDs, CD-Rs, CD-RWs, Video CDs and Audio CDs
- On-Screen Display (English, French, Spanish, German, Italian)
- Preprogrammed Remote Control
- S-Video Output
- 1 Digital Input and 2 Outputs



HTP-L7

Speaker Package

D-M3

Full-Range, Bass Reflex

Center/Surround Speakers

- Full Range 8 cm OMF Cone
- Magnetically Shielded
- MDF Cabinet
- 6 Ω Impedance
- 30 W Max Input Power
- 125 Hz-25 kHz Frequency Response

D-M7

Full-Range, Bass Reflex

- Full Range 8 cm OMF Cone
- Magnetically Shielded
- MDF Cabinet
- 6 Ω Impedance
- 40 W Max Input Power
- 80 Hz-25 kHz Frequency Response

SWA-155X

Bass Reflex Powered Subwoofer

- 11 W/ch, at 3 Ω, DIN (front/center/surround), 20 W, at 3 Ω, DIN (subwoofer)
- Built-In 15 W Amplifier
- 16 cm OMF Cone
- Magnetically Shielded
- MDF Cabinet
- 50 kΩ Impedance
- 25 W Max Input Power
- Air Drive Technology for Powerful and Natural-Sounding Bass



PDR-155, HTP-L7 (D-M3 x 3, D-M7 x 2, SWA-155X)

Simplify Your Life with This Hi-Fidelity Desktop Music System



For Music Lovers who Want
Breathtaking Clarity in Smaller
Dimensions



K-505TX, R-805TX, CDR-205TX, C-705TX, D-052AX

CS-210

CD Receiver Shelf System

CR-305TX SILVER

CD Receiver

- 20 W/Ch, 4 Ω, DIN • Discrete Output Stage Circuitry • 4 Ω Low-Impedance Drive • 4-Step Acoustic Presence • Single-Bit DAC • DLA Link2 • Optical Digital Output • RDS (PS) • Aluminum Front Panel
- RI-Compatible Remote Control

DISC PLA LINK2 RDS

D-N5TX BEECH

2-Way, Bass Reflex

- 12 cm OMF Diaphragm Woofer • 2.5 cm Balanced-Dome Tweeter
- Magnetically Shielded • Extensively Braced MDF Cabinet • 6 Ω Impedance • 70 W Max Input Power • 50 Hz-40 kHz Frequency Response

(Available only in selected markets)

K-505TX SILVER

Auto-Reverse Cassette Deck

- Auto-Reverse for Continuous Listening • Rugged Onkyo Transport System • Dolby® HX Pro & B and C Noise Reduction • CD-to-Tape One-Touch Dubbing (Album/Fade) • CD/MD to Tape Syncro Recording • Auto Tape Selector Sets Bias & Equalization to Match Tape Type • Auto Recording Level Control • Auto Spacing • Music Search • Aluminum Front Panel

DOLBY B-C NR HX PRO

R-805TX SILVER

RDS FM/AM Receiver

- 20 W/Ch, Continuous 4 Ω, DIN • WRAT (Wide Range Amplifier Technology) • Discrete Output Stage Circuitry • CD-R Input and Output Terminals • Processor Input and Output Terminals • 30 RDS FM/AM Presets • 4-Mode Timer (Weekday, Weekend, Rec, Sleep)
- Heavy-Duty Speaker Binding Posts • Aluminum Front Panel
- RI-Compatible Remote Control

WRAT ACCUCLOCK PLA

CDR-205TX SILVER

Audio CD Recorder

- Plays CDs, CD-Rs, and CD-RWs; Records to CD-Rs and CD-RWs • DLA Link (Digital Rec Level Adjustment) • 2 Optical Digital Inputs and 1 Output • CD-Text Display and Disc Titling (Disc/Artist/Track)
- 31 Preset Titles for Easy Titling (Disc/Artist/Track) • 2 x Finalizing
- One-Touch CD Dubbing • Memory Playback • Aluminum Front Panel • RI Remote Control

DISC PLA

C-705TX SILVER

CD Player

- DLA Link2 (Digital Rec Level Adjustment) • 2 Optical Digital Outputs • High-Quality Single-Bit DAC • 25-Track Random Memory • 15-Track Music Calendar Display • 4-Mode Repeat • 4-Mode Time Display • Track-1 Play Mode • Solid Steel, Anti-Resonant Chassis • Aluminum Front Panel

DISC PLA

D-052AX BEECH BLACK

2-Way, Bass Reflex

- 13 cm OMF Diaphragm Woofer • 2.5 cm Soft-Dome Tweeter
- Magnetically Shielded • Extensively Braced MDF Cabinet • 4 Ω Impedance • 70 W Max Input Power • 85 dB/W/m Sensitivity • 55 Hz-35 kHz Frequency Response • Available in Black (B) or Beech (Y)

(Available only in selected markets)

Instantly Transform Any Room into a Thrilling Home Theater



DV-S205TX, ED-205, R-805TX, D-032A

Style and Sound Beyond Your Expectations



R-801A, C-701A, CDR-201A, D-N3X

DV-S205TX SILVER

DVD/CD/MP3 CD Player

- DTS® & Dolby® Digital Decoders Built In • Plays DVDs, CDs, CD-R, CD-RW, MP3 CDs and Video CDs • 96 kHz/24-Bit Audio DACs • 2 Optical Digital Outputs • S-Video Output • 5.1-Channel Analog Output • Hi-Resolution On-Screen Display • Aluminum Front Panel • RI Remote Control

DISC PLA DOLBY SURROUND DIGITAL VIDEO MP3 96/24 DTS

ED-205 SILVER

A/V Surround Processor

- Dolby® Pro Logic Decoder Built In • 3 DSP Modes • Adjustable Digital Delay • 5.1-Channel Input • 2 S-Video Inputs and 2 Outputs
- Subwoofer Pre Out • 3 Discrete Amplifiers • Oversized Isolated Transformer • Aluminum Front Panel • RI Remote Control

DOLBY SURROUND PRO LOGIC

R-805TX SILVER

RDS FM/AM Receiver

- 20 W/Ch, Continuous 4 Ω, DIN • WRAT (Wide Range Amplifier Technology) • Discrete Output Stage Circuitry • CD-R Input and Output Terminals • Processor Input and Output Terminals • 30 RDS FM/AM Presets • 4-Mode Timer (Weekday, Weekend, Rec, Sleep) • Heavy-Duty Speaker Binding Posts • Aluminum Front Panel
- RI-Compatible Remote Control

WRAT ACCUCLOCK PLA

D-032A BLACK

2-Way, Bass Reflex

- 12 cm Bio-Hybrid Cone Woofer • 2.5 cm Soft-Dome Tweeter
- Magnetically Shielded • Extensively Braced MDF Cabinet • 6 Ω Impedance • 70 W Max Input Power • 87 dB/W/m Sensitivity • 55 Hz-35 kHz Frequency Response

(Available only in selected markets)

R-801A SILVER

RDS FM/AM Receiver

- 17 W/Ch, Continuous 4 Ω, DIN • WRAT (Wide Range Amplifier Technology) • Discrete Output Stage Circuitry • Low-Impedance Drive • CD-R Input and Output Terminals • 4 Analog Inputs and 3 Outputs • Dedicated Subwoofer Pre Out • 30 FM/AM Random Presets • RDS (PS, RT, CT) & AccuClock • FM Auto Scan Tuning • 4-Mode Timer (Weekday, Weekend, Rec, Sleep) • Aluminum Front Panel • RI-Compatible Remote Control

WRAT ACCUCLOCK PLA

C-701A SILVER

CD Player

- DLA Link2 (Digital Rec Level Adjustment) • 2 Optical Digital Outputs • High-Quality Single-Bit DAC • Vibration-Reducing Center-Mounted Tray • 25-Track Random Memory • 3-Mode Repeat (Entire Disc, Memory, Random) • 2-Mode Super Dubbing (Album, Fade Out) • High-Rigidity Anti-Resonant Steel Chassis • Aluminum Front Panel

DISC PLA

CDR-201A SILVER

Audio CD Recorder

- Plays CDs, CD-Rs, and CD-RWs; Records to CD-Rs and CD-RWs • DLA Link • Rec Level Adjustment (Analog & Digital) • 2 Optical Digital Inputs and 1 Output • CD-Text Display and Disc Titling (Disc/Track) • 4 x Finalizing • One-Touch CD Dubbing
- Aluminum Front Panel • RI Remote Control

DISC PLA

D-N3X BEECH

2-Way, Bass Reflex

- 12 cm OMF Diaphragm Woofer • 2.5 cm Balanced-Dome Tweeter • Magnetically Shielded • Extensively Braced MDF Cabinet • 5 Ω Impedance • 70 W Max Input Power • 60 Hz-35 kHz Frequency Response

(Available only in selected markets)

Optional Component

K-501A SILVER

Auto-Reverse Cassette Deck

- Slot-In Computer Controlled Auto-Reverse Cassette Deck
- Dolby® HX Pro & B and C Noise Reduction • CD-to-Tape, One-Touch CD Dubbing (Album/Fade) • CD/CD-R/MD to Tape Syncro Recording • Automatic Tape Selector • Auto Space Rec Mute • Music Search • One-Touch Power On and Play • RI Remote Control Terminal • Aluminum Front Panel

DOLBY B-C NR HX PRO



Refining the Art of Stereo—Serious Equipment for the Serious Audiophile

These sleek, well-built components are exemplary reminders that musical excellence doesn't have to be outrageously expensive. Each component delivers a level of fidelity that is hard for other manufacturers to rival, let alone surpass—even at a much higher price.

A-9211

Integrated Amplifier



SILVER BLACK

- 60 W/Ch, Continuous 4 Ω, 1 kHz, DIN
- High-Current, Low-Impedance Drive
- Shielded Heavy-Duty Power Supply
- Discrete Output Stage Circuitry
- Aluminum-Extruded Heat Sink
- A/B Speaker Selector & Outputs
- Direct Source/Tone Bypass Switch
- 6 Audio Inputs
- Aluminum Front Panel
- RI-Compatible Control

T-4211

Quartz Synthesized FM/AM Stereo Tuner



SILVER BLACK

- Digital Synthesized Tuning
- High Sensitivity & Superb Selectivity
- High-Quality Front End
- 2-Mode APR (Automatic Precision Tuning)
- RDS (PTY, TP, RT, CT, PS)
- 30 RDS FM/AM Random Presets
- Selectable Character Display Input
- 3 Station-Group Presets (10 Stations Each)
- Aluminum Front Panel
- RI-System Compatible

TX-8211

RDS FM/AM Stereo Receiver



SILVER BLACK

- 70 W/Ch, Continuous 4 Ω, 1 kHz, DIN
- High-Current, Low-Impedance Drive
- Discrete Output Stage Circuitry
- 30 FM/AM Random Presets
- 2-Mode APR (Automatic Precision Tuning)
- RDS (PTY, TP, RT, PS)
- A/B Speaker Selector & Outputs
- Tape Monitor
- Aluminum Front Panel
- RI-Compatible Remote Control

DX-7333

CD Player



SILVER BLACK

- Proprietary AccuPulse Quartz System
- Unique Next Selection Feature
- Memory Reverse (Program Delete)
- Peak-Level Search
- 36-Track Random Memory
- 3 Repeat Modes (Entire Disc, Single Track, A-B Block)
- 2 Optical Digital Outputs
- Headphone Jack with Volume Control
- Aluminum Front Panel
- RI Remote Control

DX-C380

6-Disc CD Carousel Changer



SILVER BLACK

- Change up to 5 Discs During Play
- Single-Bit DAC
- Proprietary AccuPulse Quartz System
- Optical Digital Output
- 40-Track Programming
- Unique Next Selection Feature
- 6 Repeat Modes
- Disc Intro Scan
- Direct Track and Disc Access
- oversized Isolated Power Transformer
- Aluminum Front Panel
- RI Remote Control



DX-R700

Audio CD Recorder



SILVER BLACK

- Plays CDs, CD-Rs, and CD-RWs; Records to CD-Rs and CD-RWs
- Digital Inputs (1 Optical/1 Coaxial) and Digital Outputs (1 Optical/1 Coaxial)
- CD-Text Display and Disc Titling (Disc/Artist/Track)
- Auto Finalizing Function
- 2 x High-Speed Finalizing
- Signal Syncro Recording
- Built-in 32 kHz/44.1 kHz/48 kHz Converter
- Record Level Adjustment (Analog & Digital)
- Aluminum Front Panel
- RI Remote Control



TA-RW244

Double Cassette Deck



SILVER BLACK

- Auto-Reverse on Both Decks, Auto-Reverse Record on Deck B
- Rugged Onkyo Transport System
- Dolby® B and C Noise Reduction
- CD Synchro Recording
- 8-Segment FL Peak Level Meters
- Peak Hold
- Auto Tape Selector
- Auto Spacing
- 4-Digit Electronic Tape Counter
- Aluminum Front Panel
- RI-System Compatible

Home Theater Speakers

SKS-101

Center/Surround Speaker Package



BLACK

D-052AX

2-Way, Bass Reflex



BEECH BLACK

D-032A

2-Way, Bass Reflex



BLACK

SKW-205

Powered Subwoofer



BLACK

- Proprietary AccuPulse Quartz System
- Unique Next Selection Feature
- Memory Reverse (Program Delete)
- Peak-Level Search
- 36-Track Random Memory
- 3 Repeat Modes (Entire Disc, Single Track, A-B Block)
- 2 Optical Digital Outputs
- Headphone Jack with Volume Control
- Aluminum Front Panel
- RI Remote Control

- Magnetic Shielded
- Full-Range 10 cm Cone Drivers
- 6 Ω Impedance
- 100 W Max Input Power
- 87 dB/W/m Sensitivity

- Acoustic Suspension
- Full-Range 10 cm Cone Driver
- 6 Ω Impedance
- 100 W Max Input Power
- 83 dB/W/m Sensitivity

- 13 cm OMF Diaphragm Woofer
- 2.5 cm Soft-Dome Tweeter
- Magnetic Shielded
- 4 Ω Impedance
- 70 W Max Input Power
- Available in Black (B) or Beech (Y)

- 12 cm Bio-Hybrid Cone Woofer
- 2.5 cm Soft-Dome Tweeter
- Magnetic Shielded
- Extensively Braced MDF Cabinet
- 6 Ω Impedance
- 70 W Max Input Power
- 87 dB/W/m Sensitivity

- Built-In 60 W Amplifier
- Front Panel Movie/Music Mode Button
- Front Panel Output and Frequency Controls
- Auto-Standby Circuitry (Available only in selected markets)



IMAGINATIVE SIGHT & SOUND

TECHNICAL FEATURES AND SPECIFICATIONS

AUDIO/VIDEO PRODUCTS 2003

FEATURES

A/V RECEIVERS	TX-DS989Ver2	TX-NR900E	TX-DS898	TX-SR701E	TX-SR601E	TX-SR501E
POWER SPECIFICATIONS						
POWER OUTPUT ^{**}	FRONT L/R (6 Ω, 1 kHz, DIN) CENTER (6 Ω, 1 kHz, DIN) SURROUND L/R (6 Ω, 1 kHz, DIN) SURROUND BACK (6 Ω, 1 kHz, DIN)	160 W/Ch 160 W 160 W/Ch 160 W/Ch (L/R)	150 W/Ch 150 W 150 W/Ch 150 W/Ch (L/R)	150 W/Ch 150 W 150 W/Ch 150 W/Ch (L/R)	130 W/Ch 130 W 130 W/Ch 130 W	120 W/Ch 120 W 120 W/Ch 120 W
DYNAMIC POWER ^{**}	4 Ω (Front) 8 Ω (Front)	230 W/Ch 150 W/Ch	220 W/Ch 140 W/Ch	220 W/Ch 140 W/Ch	170 W/Ch 115 W/Ch	165 W/Ch 100 W/Ch
AMPLIFIER DESIGN						
IDENTICAL FULL-BANDWIDTH CHANNELS	7	7	7	6	6	6
REDUCED NFB (NEGATIVE FEEDBACK) DESIGN	✓	✓	✓	✓	✓	✓
WRAT (WIDE RANGE AMPLIFIER TECHNOLOGY)	✓	✓	✓	✓	✓	✓
VLSC (VECTOR LINEAR SHAPING CIRCUITRY)		✓		✓	✓	
NON-SCALING CONFIGURATION	✓	✓	✓	✓	✓	✓
DACS	192 kHz/24-Bit x 8	192 kHz/24-Bit x 6 96 kHz/24-Bit x 2	192 kHz/24-Bit x 6 96 kHz/24-Bit x 2	192 kHz/24-Bit x 6 96 kHz/24-Bit x 2	192 kHz/24-Bit x 6	192 kHz/24-Bit x 6
HIGH CURRENT LOW IMPEDANCE DRIVE	✓	✓	✓	✓	✓	✓
ALL DISCRETE OUTPUT STAGE AMPLIFIERS	✓	✓	✓	✓	✓	✓
OPTIMUM GAIN VOLUME CIRCUITY	✓ (Linear)	✓ (Linear)	✓ (Linear)	✓	✓	✓
DIGITAL UPSAMPLING	✓	✓	✓	✓	✓	✓
HOME THEATER FEATURES						
THX® SURROUND EX™ AND THX® CERTIFIED	✓ (Ultra2)	✓ (Select)	✓ (Select)	✓ (Select)	✓ (Select)	✓ (Select)
EXTENDED FREQUENCY RESPONSE (+1 dB, -3 dB)	5 Hz-100 kHz	10 Hz-100 kHz	10 Hz-100 kHz	10 Hz-100 kHz	10 Hz-100 kHz	10 Hz-100 kHz
DTS®, DTS®-ES® DISCRETE/MATRIX 6.1, DTS® NEO:6	✓	✓	✓	✓	✓	✓
DTS® 96/24	✓	✓		✓	✓	✓
DOLBY® DIGITAL, DOLBY® PRO LOGIC™ II, DOLBY® DIGITAL EX™	✓	✓	✓ (without Dolby® Digital EX™)	✓	✓	✓
A-FORM LISTENING MODE MEMORY	✓	✓	✓	✓	✓	✓
COMPOSITE TO S-VIDEO CONVERSION		✓	✓		✓	
MULTICHANNEL INPUT	7.1	7.1	7.1	5.1	5.1	5.1
CINEMAFILTER™						
DIGITAL SOUNDFIELD PROCESSING MODES	50	39	36	39	32	13
LATE NIGHT MODE	✓	✓	✓	✓	✓	✓
COLOR-CODED SPEAKER TERMINALS		✓		✓	✓	
ON-SCREEN DISPLAY	✓	✓	✓	✓	✓	✓
ADJUSTABLE DIGITAL DELAY	✓	✓	✓	✓	✓	
CROSSOVER ADJUSTMENT	✓	✓		✓	✓	✓
NETWORK FEATURES						
NET-TUNE		✓				
ETHERNET PORT		✓				
NUMBER OF PRESETS (INTERNET RADIO)		30				
INPUTS/OUTPUTS						
AUDIO AND AV INPUTS	4/6	3/6	3/6	2/5	2/5	2/4
HDTV-READY COMPONENT VIDEO INPUT/OUTPUT	3/1	2/1	2/1	2/1	2/1	2/1
FRONT-PANEL VIDEO INPUT (WITH S-VIDEO)		✓		✓	✓	✓
S-VIDEO COMPATIBLE JACKS INPUT/OUTPUT	6/5	6/3	6/3	5/3	5/3	4/2
DIGITAL INPUTS	3 Optical 5 Coaxial 1 AC-3 RF	5 Optical (1 Front Panel) 3 Coaxial	5 Optical (1 Front Panel) 3 Coaxial	3 Optical (1 Front Panel) 1 Coaxial	3 Optical (1 Front Panel) 1 Coaxial	2 Optical 1 Coaxial
DIGITAL OUTPUT	1 Optical/1 Coaxial	2 Optical	2 Optical	1 Optical/1 Coaxial	1 Optical	
AMP IN	✓ (3)					
RS-232 CONTROL PORT	✓	✓	✓			
IR IN/OUT	2 (Main/Zone2)/0	1/1	1/1	1/0	1/0	
PRE OUTS						
FRONT L/R, CENTER	✓	✓	✓	✓		
SURROUND L/R	✓	✓	✓	✓		
SURROUND BACK	✓ (L/R)	✓ (L/R)	✓ (L/R)	✓ (L/R)		
SUBWOOFER	✓ (2)	✓	✓	✓	✓	✓
OTHER FEATURES						
DOT-MATRIX DISPLAY	✓	✓	✓	✓	✓	✓
DISPLAY DIMMER	3 Levels + Off	3 Levels	3 Levels	3 Levels	3 Levels	3 Levels
PURE AUDIO MODE		✓	✓	✓		
DUAL BANANA PLUG COMPATIBLE SPEAKER TERMINALS	All Terminals	All Terminals	All Terminals	All Terminals	All Terminals	All Terminals (Except Speaker B)
SLEEP TIMER (90 MINUTES; 10-MIN STEPS)	✓	✓	✓	✓	✓	✓
PHONO INPUT	✓	✓	✓	✓	✓	
HEADPHONE JACK	✓	✓	✓	✓	✓	
ZONE 2 (MULTISOURCE) LINE OUT	✓ (Audio/Video)	✓ (Audio/Video)	✓ (Audio/Video)	Line/Pre Out	Line	
POWERED ZONE 2		✓	✓	✓	✓	
12 VOLT TRIGGER		1 (Zone 2)	1 (Zone 2)	1 (Zone 2)	1 (Zone 2)	
A/B SPEAKER DRIVE						A and B
TUNER FEATURES						
NUMBER OF PRESETS (FM/AM)	40	40	40	40	40	30
RDS (RADIO DATA SYSTEM)	✓	✓	✓	✓	✓	✓
CONTROL						
RI-COMPATIBLE REMOTE CONTROL	Learning/Backlit/LCD	Prepro/Learning/Backlit	LCD/Touchscreen	Prepro/Learning/Backlit	Prepro/Learning	✓
MACRO FUNCTION	✓	✓	✓	✓	✓	
ABSOLUTE/RELATIVE VOLUME DISPLAY	✓	✓	✓	✓	✓	Absolute
INTELLIVOLUME	✓	✓	✓	✓	✓	
COLOR	Silver or Black	Silver or Black	Silver or Black	Silver or Black	Silver or Black	Silver or Black

*Channels are measured separately. **Calculated on basis of IHF Dynamic headroom.

FEATURES

DVD/CD PLAYERS	DV-SP800	DV-S939	DV-SP500	DV-S205TX	CD RECEIVER	CR-305TX
THX® CERTIFIED	✓ (Ultra)	✓ (Ultra)			POWER OUTPUT STEREO (4 Ω, 1 kHz, DIN)	20 W/Ch
DVD AUDIO DECODING	✓	✓			DYNAMIC POWER** (4 Ω)	24 W
SUPER AUDIO CD DECODING	✓				DISCRETE OUTPUT STAGE	✓
DTS®/DOLBY® DIGITAL/MPEG/DIGITAL AUDIO OUTPUT	✓	✓	✓	✓	RDS (RADIO DATA SYSTEM)	✓
DIRECT DIGITAL PATH	✓	✓	✓		AUDIO INPUT/OUTPUT	3/3
VLSC (VECTOR LINEAR SHAPING CIRCUITRY)	✓	✓	✓		NUMBER OF PRESETS	30
96 kHz-48 kHz SELECTABLE DIGITAL OUTPUT	✓		✓		PRESET STATION NAMING	✓
RGB VIDEO OUTPUT	✓	✓	✓	✓	AUTOMATIC TUNING	✓
MPEG PLAYBACK	✓	✓	✓	✓	HEADPHONE JACK	✓
MP3 PLAYBACK	✓	✓	✓	✓	CONVERTER	Single-Bit D/A (CD)
PLAYBACK DAC	192 kHz/24-Bit	192 kHz/24-Bit	192 kHz/24-Bit	96 kHz/24-Bit	RANDOM TRACK MEMORY	✓
VIDEX DAC	108 MHz/12-Bit	54 MHz/10-Bit	27 MHz/10-Bit	27 MHz/10-Bit	NUMBER OF REPEAT MODES	3
VIDEO CIRCUIT ON/OFF CONTROL	✓	✓			SAMPLING RATE CONVERTER	✓
DYNAMIC RANGE CONTROL	✓	✓	✓		DIGITAL OUTPUT	1 Optical
VIDEO BLACK LEVEL CONTROL	✓	✓	✓		SLEEP TIMER	✓
DIGITAL OUTPUTS	2 Optical/1 Coaxial	2 Optical/2 Coaxial	1 Optical/1 Coaxial		RI-COMPATIBLE REMOTE CONTROL	✓
ANALOG AUDIO OUTPUT	✓	✓	✓		COLOR	Silver
CD-R/RW PLAYBACK CAPABILITY	✓	✓	✓			
DVD-R/RW PLAYBACK CAPABILITY**	✓					
S-VIDEO OUTPUT	✓	✓	✓			
PASSES PLUG SIGNALS	✓	✓	✓			
PICTURE MAGNIFICATION		✓ (6 Steps)				
PROGRAMMED MEMORY PLAYBACK	✓	✓	✓			
8-LANGUAGE SOUNDTRACK CAPABILITY	✓	✓	✓			
DIMMABLE DISPLAY	4-Mode	4-Mode	3-Mode			
COLOR	Silver or Black	Silver or Black	Silver or Black	Silver		

HOME STYLE COMPONENTS	DR-L50	DR-S2.2	PDR-155 (L-DR7)	CR-L5	TX-L5	CR-N1	Hi-Fi RECEIVERS	R-805TX	R-801A	TX-8211
RECEIVER/CONTROL CENTER SECTION							POWER OUTPUT STEREO (4 Ω, 1 kHz, DIN)	20 W/Ch	17 W/Ch	70 W/Ch
POWER OUTPUT STEREO (6 Ω, 1 kHz, DIN)	21 W/Ch	35 W/Ch					DYNAMIC POWER** (4 Ω)	24 W/Ch	21 W/Ch	90 W/Ch
POWER OUTPUT STEREO (4 Ω, 1 kHz, DIN)				50 W/Ch			WRAT (WIDE RANGE AMPLIFIER TECHNOLOGY)	✓	✓	
WRAT (WIDE RANGE AMPLIFIER TECHNOLOGY)	✓			✓	✓		DISCRETE OUTPUT STAGE	✓	✓	✓
VLSC (VECTOR LINEAR SHAPING CIRCUITRY)				✓	✓		LOW IMPEDANCE DRIVE	✓	✓	
DISCRETE OUTPUT STAGE				✓	✓		RDS (RADIO DATA SYSTEM)	✓	✓	
LOW IMPEDANCE DRIVE	✓	✓		✓	✓		AUDIO INPUT/OUTPUT TERMINALS	5/3	4/3	4/2
RDS (RADIO DATA SYSTEM)	✓	✓	✓	✓	✓		INPUT/OUTPUT PROCESSOR JACKS	✓		
AUDIO INPUT/OUTPUT TERMINALS	2/1	4/2	2/1	3/2	5/3	1/1	SUBWOOFER PRE OUT		✓	
SUBWOOFER PRE OUT	✓	✓	✓	✓	✓	✓	NUMBER OF PRESETS	30	30	30
SURROUND MODES	12	12	12	0	9		PRESET STATION NAMING	✓	✓	
NUMBER OF PRESETS	30	30	30	4	30		ACCU CLOCK	✓	✓	
PRESET STATION NAMING	✓		✓	✓	✓		DIRECT ACCESS TUNING	✓	✓	✓
DIRECT ACCESS TUNING				✓	✓		AUTOMATIC/MANUAL TUNING	✓	✓	✓
ACOUSTIC CONTROL	2 Step	2 Step	2 Step		2 Step	2 Step	HEADPHONE JACK	✓	✓	
AUTOMATIC/MANUAL TUNING	✓	✓	✓	✓	✓	✓	SLEEP TIMER	✓	✓	✓
SLEEP TIMER	✓	✓	✓	✓	✓	✓	RI-COMPATIBLE REMOTE CONTROL	✓	✓	✓
HEADPHONE JACK	✓	✓	✓	✓	✓	✓	COLOR	Silver	Silver	Silver or Black
COLOR-CODED SPEAKER TERMINALS	✓	✓	✓							
RI REMOTE CONTROL	✓	✓	✓	✓	✓					
COLOR	Titanium	Titanium	Silver	Silver	Titanium	Titanium				
USB PORT						✓				

DVD PLAYER SECTION	DR-L50	DR-S2.2	PDR-155 (L-DR7)	CR-L5	TX-L5	CR-N1	DV-L5
DTS®/DOLBY® DIGITAL/DIGITAL AUDIO OUTPUT	✓	✓	✓		✓		
PROGRESSIVE SCAN					✓		
RGB VIDEO OUTPUT	✓	✓	✓		✓		
PLAYBACK DAC	96 kHz/24-Bit	96 kHz/24-Bit	96 kHz/24-Bit		192 kHz/24-Bit		
VIDEO DAC	27 MHz/10-Bit	27 MHz/10-Bit	27 MHz/10-Bit		27 MHz/10-Bit		
DYNAMIC RANGE CONTROL	✓	✓	✓		✓		
DIGITAL OUTPUTS	1 Optical	1 Optical	2 Optical		1 Optical/1 Coaxial		
ANALOG AUDIO OUTPUT	✓	✓	✓		✓		
CD-R/RW PLAYBACK CAPABILITY	✓	✓	✓		✓		
MP3 PLAYBACK	✓	✓	✓		✓		
S-VIDEO OUTPUT	✓	✓	✓		✓		
PROGRAMMED MEMORY PLAYBACK	✓	✓	✓		✓		
8-LANGUAGE SOUNDTRACK CAPABILITY	✓	✓	✓		✓		
DIMMABLE DISPLAY	3-Mode	3-Mode	3-Mode		4-Mode		
COLOR					Titanium		

HARD-DISK MUSIC LIBRARY	MB-S1
HARD-DISK CAPACITY	20 GB
LONG MODE (MP3/96 kbps)	450 Hours
STANDARD MODE (MP3/128 kbps)	350 Hours
HI-QUALITY MODE (MP3/192 kbps)	230 Hours
SUPER HI-QUALITY MODE (PCM)	35 Hours
RECORDING MODE	PCM/96 kbps/ 128 kbps/192 kbps
TIMER RECORDING/PLAY	✓
RANDOM ACCESS	✓
QUICK RECORDING (PCM TO PCM)	× 5 Speed
QUICK RECORDING (MP3 TO MP3)	× 50 Speed
CD/CD-R PLAYBACK	✓
SORTING	5 Modes
EDITING	Title/Category/ Album/Artist
SAMPLING RATE CONVERSION	32/44.1/48 kHz
D/A CONVERTER	48 kHz/16 bit
A/D CONVERTER	48 kHz/16 bit
USB INPUT/OUTPUT	1 Up/1 Down
DIGITAL INPUT	1 Optical/1 Coaxial
DIGITAL OUTPUT	1 Optical (CD/CD-ROM Only)
ANALOG INPUT	1 RCA
ANALOG OUTPUT	1 RCA (Fixed)
SOFTWARE	Carry Tunes
COLOR	Titanium

*1 Discs that have not been properly finalized may only be partially playable or not playable at all *2 Calculated on basis of IHF Dynamic headroom

FEATURES

CD PLAYERS	C-705TX	C-701A	DX-7333	DX-C380	A/V SURROUND PROCESSOR	ED-205
SINGLE-BIT DAC	✓	✓	✓	✓	POWER OUTPUT CENTER (6 Ω, 1 kHz, DIN) REAR (6 Ω, 1 kHz, DIN)	22 W 22 W/Ch
ACCUPILE QUARTZ SYSTEM				Carousel	DOLBY® PRO LOGIC	✓
6-DISC CHANGER				by remote	SURROUND MODES	3
PEAK SEARCH	✓ (DLA Link 2)	✓ (DLA Link 2)	by remote	by remote	ADJUSTABLE DIGITAL DELAY	✓
MEMORY REVERSE			✓		5.1 MULTICHANNEL INPUT	✓
NUMBER OF REPEAT MODES	4	4	5	6	SUBWOOFER PRE OUT	✓
RANDOM TRACK MEMORY	25	25	36	40	S-VIDEO & COMPOSITE INPUTS/OUTPUTS	✓
SHUFFLE/RANDOM PLAY	By Remote (Random)	By Remote	By Remote	By Remote	MASTER VOLUME CONTROL	✓
DIRECT TRACK ACCESS	By Remote	By Remote	By Remote	By Remote	6-CHANNEL TEST TONE	✓
TIME EDIT	2 Optical	2 Optical	2 Optical	1 Optical	THICK-GAUGE METAL CHASSIS	✓
DIGITAL OUTPUT	✓	✓	✓	✓	LARGE 17-SEGMENT FL DISPLAY	✓
ANALOG OUTPUT (FIXED)					LARGE NON-RESONANT FEET	✓
HEADPHONE JACK WITH VOLUME CONTROL					RIBBED SIDE PANELS	✓
RI REMOTE CONTROL	✓		✓	✓	RI REMOTE CONTROL	✓
COLOR	Silver	Silver	Silver or Black	Silver or Black	COLOR	Silver

CD RECORDERS	CDR-205TX	CDR-201A	DX-R700	CASSETTE DECKS	K-505TX	K-501A	TA-RW244
CD/CD-R/CD-RW DISCS PLAYBACK CAPABILITY	✓	✓	✓	NUMBER OF MOTORS	1	1	1 + 1
HIGH SPEED FINALIZATION	✓	✓	✓	NUMBER OF TAPE HEADS	2	2	1 + 2
AUTO FINALIZING FUNCTION	✓	✓	✓	DOUBLE CASSETTE DECK			✓
DAC	24-Bit	24-Bit	24-Bit	HIGH-SPEED DUBBING			✓
ANALOG INPUT (STEREO)	1	1	1	DOUBLE AUTO REVERSE			✓
ANALOG OUTPUT (STEREO)	1	1	1	AUTO REVERSE	✓	✓	
DIGITAL INPUT (STEREO)	2 Optical	2 Optical	1 Optical 1 Coaxial	CONTINUOUS PLAY			✓
DIGITAL OUTPUT	1 Optical	1 Optical	1 Optical 1 Coaxial	REC LEVEL CONTROLS	✓		✓
MULTI JOG	✓	✓	✓	CD SYNCHRO RECORDING	✓	✓	✓
MULTI TRACK ERASE	✓		✓	REPEAT PLAY		✓	✓
CD-TEXT	✓	✓	✓	MUSIC SEARCH	✓	✓	
HEADPHONE JACK WITH VOLUME CONTROL			✓	DOLBY® B AND C NOISE REDUCTION	✓	✓	✓
RI REMOTE CONTROL	✓	✓	✓	DOLBY® HX PRO	✓	✓	
COLOR	Silver	Silver	Silver or Black	ELECTRONIC COUNTER	✓		✓
				FLUORESCENT DISPLAY	✓		✓
				RI REMOTE SYSTEM	✓	✓	
				COLOR	Silver	Silver	Silver or Black

INTEGRATED AMPLIFIER	A-9211	TUNER	T-4211
POWER OUTPUT (4 Ω, 1 kHz, DIN)	60 W/Ch	RDS (RADIO DATA SYSTEM)	✓
DYNAMIC POWER* (4 Ω)	80 W/Ch	NUMBER OF PRESETS	30
DISCRETE OUTPUT STAGE	✓	APR (AUTOMATIC PRECISION RECEPTION)	2-Mode
AUDIO INPUTS/OUTPUTS	6/2	GROUP MEMORY	3
HIGH QUALITY REMOTE CONTROL	✓	DIRECT ACCESS TUNING	✓
TAPE DUBBING	✓	AUTOMATIC/MANUAL TUNING	✓
TONE BYPASS CONTROL	✓	PRESET SCAN	✓
TWO SETS OF SPEAKER OUTPUTS	✓	SIGNAL STRENGTH INDICATOR	5-Segment
HEAVY-DUTY MULTIWAY BINDING POSTS	✓	RECEPTION MODE INDICATORS	✓
HEADPHONE JACK	✓	RI REMOTE SYSTEM	✓
RI-COMPATIBLE REMOTE CONTROL	✓	COLOR	Silver or Black
COLOR	Silver or Black		

SPEAKERS	D-052TX/D-052AX	D-L5	SL-105	D-N1	HTP-L7 (L-DR7)
TYPE	2-Way, Bass Reflex	Full Range, Bass Reflex	Bass Reflex	2-Way, Bass Reflex	D-M3
NOMINAL IMPEDANCE	4 Ω	6 Ω	5 Ω	4 Ω	D-M7
INPUT IMPEDANCE			4.7 kΩ/Speaker, 12 kΩ/Line		SWA-155X
MAX. POWER	70 W	40 W	60 W	30 W	Full Range, Bass Reflex
FREQUENCY RESPONSE	55 Hz-35 kHz	125 Hz-25 kHz	30 Hz-200 Hz	63 Hz-35 kHz	6 Ω
DRIVERS	13 cm OMF Cone	Full Range 8 cm Cone	20 cm Cone	9 cm OMF Cone	125 Hz-25 kHz
TWEETER	2.5 cm Soft-Dome			2.5 cm Soft-Dome	80 Hz-25 kHz
POWER OUTPUT (3 Ω, DIN)					Full Range 8 cm OMF Cone
					16 cm OMF Cone
					11 W/Ch (front/center/surround), 20 W (subwoofer)

SPEAKERS	D-N5TX	D-032A	D-N3X	SKS-101	SKW-205
TYPE	2-Way, Bass Reflex	2-Way, Bass Reflex	2-Way, Bass Reflex	Center Speaker	Powered Subwoofer
NOMINAL IMPEDANCE	6 Ω	6 Ω	5 Ω	Dual Full Range, Bass Reflex	Bass Reflex
INPUT IMPEDANCE				Full Range, Air Suspension	6 Ω
MAX. POWER	70 W	70 W	70 W	6 Ω	4.7 kΩ/Speaker, 12 kΩ/Line
FREQUENCY RESPONSE	50 Hz-40 kHz	55 Hz-35 kHz	60 Hz-35 kHz	100 W	75 W
DRIVERS	12 cm OMF Cone	12 cm Bio-Hybrid Cone	12 cm OMF Cone	63 Hz-20 kHz	100 Hz-20 kHz
TWEETER	2.5 cm Balanced-Dome	2.5 cm Soft-Dome	2.5 cm Soft-Dome	Full Range 10 cm Cone x 2	20 cm Cone

*1 Calculated on basis of IHF Dynamic headroom

SPECIFICATIONS

A/V RECEIVERS	TX-DS989Ver2	TX-NR900E	TX-DS898	TX-SR701E	TX-SR601E	TX-SR501E
AMPLIFIER SECTION						
Power Output** (6 Ω, 1 kHz, DIN)						
Front L/R	160 W/Ch	150 W/Ch	150 W/Ch	130 W/Ch	120 W/Ch	85 W/Ch
Center	160 W	150 W	150 W	130 W	120 W	85 W
Surround L/R	160 W/Ch	150 W/Ch	150 W/Ch	130 W/Ch	120 W/Ch	85 W/Ch
Surround Back	160 W/Ch (L/R)	150 W/Ch (L/R)	150 W/Ch (L/R)	130 W	120 W	85 W
Dynamic Power*						
4 Ω 8 Ω (front)	230 W/Ch/150 W/Ch	220 W/Ch/140 W/Ch	220 W/Ch/140 W/Ch	170 W/Ch/115 W/Ch	165 W/Ch/100 W/Ch	125 W/Ch/85 W/Ch
THD (Rated Power)	0.05 % (all channels)	0.08 % (all channels)	0.08 % (all channels)	0.08 % (all channels)	0.08 % (all channels)	0.08 % (all channels)
Damping Factor (1 kHz, 8 Ω)	60	60	60	60	60	60
Input Sensitivity and Impedance						
PHONO (MM)	2.5 mV, 50 kΩ	2.5 mV, 50 kΩ	2.5 mV, 50 kΩ	2.5 mV, 47 kΩ	—	—
CD and TAPE Play	200 mV, 50 kΩ	200 mV, 50 kΩ	200 mV, 50 kΩ	200 mV, 47 kΩ	200 mV, 47 kΩ	200 mV, 50 kΩ
Output Level and Impedance						
TAPE REC	200 mV, 2.2 kΩ	200 mV, 470 Ω	200 mV, 470 Ω	200 mV, 470 Ω	200 mV, 470 Ω	200 mV, 470 Ω
PRE OUT	1.0 V, 470 Ω	1.0 V, 470 Ω	1.0 V, 470 Ω	1.0 V, 470 Ω	1.0 V, 470 Ω	1.0 V, 470 Ω
Frequency Response	20 Hz-30 kHz ± 1 dB 5 Hz-100 kHz + 1 dB, -3 dB	10 Hz-100 kHz + 1 dB, -3 dB	10 Hz-100 kHz + 1 dB, -3 dB	10 Hz-100 kHz + 1 dB, -3 dB	10 Hz-100 kHz + 1 dB, -3 dB	10 Hz-100 kHz + 1 dB, -3 dB
S/N Ratio						
PHONO (MM)	80 dB (IHF-A, 5 mV input)	80 dB (IHF-A, 5 mV input)	80 dB (IHF-A, 5 mV input)	80 dB (IHF-A, 5 mV input)	—	—
CD/TAPE	100 dB (IHF-A, 0.5 V input)	110 dB (IHF-A, 0.5 V input)	110 dB (IHF-A, 0.5 V input)	106 dB (IHF-A, 0.5 V input)	106 dB (IHF-A)	100 dB (IHF-A)
Phone Overload (1 kHz)	110 mV RMS, 0.5 % THD	120 mV RMS, 0.5 % THD	120 mV RMS, 0.5 % THD	70 mV RMS, 0.5 % THD	—	—
Tone Controls						
BASS	± 10 dB at 100 Hz	± 10 dB at 50 Hz	± 10 dB at 50 Hz	± 10 dB at 50 Hz	± 10 dB at 50 Hz	± 10 dB at 50 Hz
TREBLE	± 10 dB at 10 kHz	± 10 dB at 20 kHz	± 10 dB at 20 kHz	± 10 dB at 20 kHz	± 10 dB at 20 kHz	± 10 dB at 20 kHz
TUNER SECTION						
Usable Sensitivity						
FM Mono	11.2 dBf, 1.0 μV (75 Ω IHF)	11.2 dBf, 1.0 μV (75 Ω IHF)	11.2 dBf, 1.0 μV (75 Ω IHF)	11.2 dBf, 1.0 μV (75 Ω IHF)	11.2 dBf, 1.0 μV (75 Ω IHF)	11.2 dBf, 1.0 μV (75 Ω IHF)
FM Stereo	17.2 dBf, 2.0 μV (75 Ω IHF)	17.2 dBf, 2.0 μV (75 Ω IHF)	17.2 dBf, 2.0 μV (75 Ω IHF)	17.2 dBf, 2.0 μV (75 Ω IHF)	17.2 dBf, 2.0 μV (75 Ω IHF)	17.2 dBf, 2.0 μV (75 Ω IHF)
AM	30 μV	30 μV	30 μV	30 μV	30 μV	30 μV
S/N Ratio						
FM Mono	76 dB (IHF-A)	76 dB (IHF-A)	76 dB (IHF-A)	76 dB (IHF-A)	76 dB (IHF-A)	76 dB (IHF-A)
FM Stereo	70 dB (IHF-A)	70 dB (IHF-A)	70 dB (IHF-A)	70 dB (IHF-A)	70 dB (IHF-A)	70 dB (IHF-A)
AM	40 dB	40 dB	40 dB	40 dB	40 dB	40 dB
THD						
FM Mono	0.2 %	0.2 %	0.2 %	0.2 %	0.2 %	0.2 %
FM Stereo	0.3 %	0.3 %	0.3 %	0.3 %	0.3 %	0.3 %
AM	0.7 %	0.7 %	0.7 %	0.7 %	0.7 %	0.7 %
FM Stereo Separation						
45 dB at 1 kHz	45 dB at 1 kHz	45 dB at 1 kHz	45 dB at 1 kHz	45 dB at 1 kHz	45 dB at 1 kHz	45 dB at 1 kHz
30 dB at 100 Hz-10 kHz	30 dB at 100 Hz-10 kHz	30 dB at 100 Hz-10 kHz	30 dB at 100 Hz-10 kHz	30 dB at 100 Hz-10 kHz	30 dB at 100 Hz-10 kHz	30 dB at 100 Hz-10 kHz
GENERAL						
Dimensions (W x H x D)	435 x 196 x 451 mm 17 1/8" x 7 11/16" x 17 3/4"	435 x 175 x 459 mm 17 1/8" x 6 7/8" x 18 1/16"	435 x 175 x 459 mm 17 1/8" x 6 7/8" x 18 1/16"	435 x 175 x 431.5 mm 17 1/8" x 6 7/8" x 17"	435 x 175 x 431.5 mm 17 1/8" x 6 7/8" x 17"	435 x 150 x 376 mm 17 1/8" x 5 7/8" x 14 13/16"
Weight	22.0 kg/48.5 lbs	18.2 kg/40.1 lbs	17.9 kg/39.5 lbs	13.0 kg/28.7 lbs	12.9 kg/28.4 lbs	9.8 kg/21.6 lbs
DVD/CD PLAYERS	DV-SP800	DV-S939	DV-SP500	DV-S205TX	CD RECEIVER	CR-305TX
Power Supply						
Power Consumption	230-240 V AC, 50 Hz	230 V AC, 50 Hz	100-240 V AC, 50/60 Hz	100-240 V AC, 50 Hz	20 W/Ch	20 W/Ch
Linear Velocity						
Single layer	3.49 m/s	3.49 m/s	3.49 m/s	3.49 m/s		
Dual layer	3.84 m/s	3.84 m/s	3.84 m/s	3.84 m/s		
Frequency Response (Digital Audio)						
DVD Linear Sound	48 kHz sampling 4 Hz to 44 kHz 192 kHz sampling 4 Hz to 96 kHz (DVD Audio)	48 kHz sampling 4 Hz to 22 kHz 192 kHz sampling 4 Hz to 96 kHz (DVD Audio)	48 kHz sampling 4 Hz to 22 kHz 96 kHz sampling 4 Hz to 44 kHz (DVD Audio)	48 kHz sampling 4 Hz to 22 kHz 96 kHz sampling 4 Hz to 44 kHz (DVD Audio)		
Audio CD	44.1 kHz sampling 4 Hz to 20 kHz	44.1 kHz sampling 4 Hz to 20 kHz	44.1 kHz sampling 4 Hz to 20 kHz	44.1 kHz sampling 4 Hz to 20 kHz		
S/N Ratio (Digital Audio)	118 dB	106 dB	90 dB	100 dB		
Audio Dynamic Range (Digital Audio)	100 dB	112 dB	95 dB	98 dB		
Harmonic Distortion (Digital Audio) (1 kHz)	0.001 %	0.002 %	0.008 %	0.005 %		
Wow and Flutter	Below threshold of measurability	Below threshold of measurability	Below threshold of measurability	Below threshold of measurability		
Video Output	1.0 V p-p, 75 Ω negative sync., pin jack x 2, SCART x 1	1.0 V p-p, 75 Ω negative sync., pin jack x 2, SCART x 1	1.0 V p-p, 75 Ω negative sync., pin jack x 1, SCART x 1	1.0 V p-p, 75 Ω negative sync., pin jack x 1, SCART x 1		
S-Video Output	(Y) 1.0 V p-p 75 Ω, (C) 0.286 V p-p 75 Ω, negative sync., Mini DIN 4-pin x 2, SCART x 1	(Y) 1.0 V p-p 75 Ω, (C) 0.286 V p-p 75 Ω, negative sync., Mini DIN 4-pin x 2, SCART x 1	(Y) 1.0 V p-p 75 Ω, (C) 0.286 V p-p 75 Ω, negative sync., Mini DIN 4-pin x 1, SCART x 1	(Y) 1.0 V p-p 75 Ω, (C) 0.286 V p-p 75 Ω, negative sync., Mini DIN 4-pin x 1, SCART x 1		
RGB Video Output	0.7 V p-p, 75 Ω, SCART x 1	0.7 V p-p, 75 Ω, SCART x 1	0.7 V p-p, 75 Ω, SCART x 1	0.7 V p-p, 75 Ω, SCART x 1		
Audio Output	-22.5 dBm x 2 0.5 V p-p, 75 Ω, pin jack x 1	-22.5 dBm x 2 0.5 V p-p, 75 Ω, pin jack x 2	-22.5 dBm x 1 0.5 V p-p, 75 Ω, pin jack x 1	-22.5 dBm x 2 0.5 V p-p, 75 Ω, pin jack x 1		
Optical Audio						
Digital Audio						
Analog Audio						
Headphone Terminal						
Dimensions (W x H x D)	435 x 91 x 314 mm	436 x 120 x 375 mm	435 x 91 x 312 mm	205 x 91 x 339 mm		
Weight	5.0 kg	11 kg	3.4 kg	2.5 kg		
Supplied Accessories	Audio/Video cable x 1, S-Video cable x 1, SCART cable x 1, Remote control (RC-498DV) x 1	Audio/Video cable x 1, S-Video cable x 1, DB-25 cable x 1, SCART cable x 1, Remote control (RC-438DV) x 1	Audio/Video cable x 1, S-Video cable x 1, SCART cable x 1, Remote control (RC-450DV) x 1	S-Video cable x 1, Audio cable x 1, Video cable x 1, Remote control (RC-464DV) x 1		
CD SECTION						
AMPLIFIER SECTION						
Power Output (4 Ω, 1 kHz, DIN)						
Dynamic Power*						
4 Ω 8 Ω (front)						
THD (Rated Power)						
0.2 %						
Frequency Response						
10 Hz-50 kHz + 0 dB, -3 dB						
S/N Ratio TAPE/LINE						
100 dB (IHF-A)						
TUNER SECTION						
Usable Sensitivity						
FM Mono	11.2 dBf, 1.0 μV (75 Ω IHF)	11.2 dBf, 1.0 μV (75 Ω IHF)	11.2 dBf, 1.0 μV (75 Ω IHF)	11.2 dBf, 1.0 μV (75 Ω IHF)	11.2 dBf, 1.0 μV (75 Ω IHF)	11.2 dBf, 1.0 μV (75 Ω IHF)
FM Stereo	17.2 dBf, 2.0 μV (75 Ω IHF)	17.2 dBf, 2.0 μV (75 Ω IHF)	17.2 dBf, 2.0 μV (75 Ω IHF)	17.2 dBf, 2.0 μV (75 Ω IHF)	17.2 dBf, 2.0 μV (75 Ω IHF)	17.2 dBf, 2.0 μV (75 Ω IHF)
AM	30 μV	30 μV	30 μV	30 μV	30 μV	30 μV
S/N Ratio						
FM Mono	73 dB, IHF	67 dB, IHF	67 dB, IHF	60 dB	60 dB	60 dB
FM Stereo						
AM						
THD						
FM Mono	0.2 %	0.3 %	0.3 %	0.7 %	0.7 %	0.7 %
FM Stereo						
AM						
FM Stereo Separation						
35 dB at 1 kHz						
CD SECTION						
Digital Filter						
Frequency Response						
5 Hz-20 kHz						
GENERAL						
Dimensions (W x H x D)	205 x 103 x 362 mm					
Weight	4.0 kg					

*Channels are measured separately **Calculated on basis of IHF Dynamic headroom

SPECIFICATIONS

HOME STYLE COMPONENTS	DR-L50	DR-S2.2	PPR-155 (L-DR7)	CR-L5	TX-L5	CR-N1	Hi-Fi RECEIVERS	R-805TX	R-801A	TX-8211
RECEIVER/CONTROL CENTER SECTION										
AMPLIFIER SECTION							AMPLIFIER SECTION			
Power Output (6 Ω, 1 kHz, DIN)	21 W/Ch	35 W/Ch	—	—	22 W/Ch	—	Power Output (4 Ω, 1 kHz, DIN)	20 W/Ch	17 W/Ch	70 W/Ch
Power Output (4 Ω, 1 kHz, DIN)	—	—	—	50 W/Ch	—	10 W/Ch	Dynamic Power**	24 W/Ch	17 W/Ch	90 W/Ch (55 W/Ch)
THD (Rated Power/1 W Output)	10 %/0.2 %	5 %/0.2 %	—	1 %/0.2 %	0.6 %	0.4 %	4 Ω 8 Ω (front)	0.6 %	0.8 %	0.08 %
Frequency Response	20 Hz-30 kHz (+0.8 dB)	20 Hz-30 kHz (+0.8 dB)	—	10 Hz-20 kHz (-3 dB)	10 Hz-20 kHz (+1.5 dB)	10 Hz-50 kHz (+3 dB)	Frequency Response	10 Hz-50 kHz	10 Hz-100 kHz	20 Hz-30 kHz
S/N Ratio	100 dB (IHF-A)	100 dB (IHF-A)	—	100 dB (IHF-A)	100 dB (IHF-A)	95 dB (IHF-A)	(+0 dB, -3 dB)	(+3 dB, -3 dB)	(±1 dB)	
TUNER SECTION							S/N Ratio	100 dB (IHF-A)	100 dB (IHF-A)	100 dB (IHF-A)
Usable Sensitivity							CD/TAPE			
FM Mono	11.2 dBf, 1.0 µV (75 Ω IHF)	11.2 dBf, 1.0 µV (75 Ω IHF)	11.2 dBf, 1.0 µV (75 Ω IHF)	11.2 dBf, 1.0 µV (75 Ω IHF)	11.2 dBf, 1.0 µV (75 Ω IHF)	11.2 dBf, 1.0 µV (75 Ω IHF)	FM Mono	11.2 dBf, 1.0 µV (75 Ω IHF)	11.2 dBf, 1.0 µV (75 Ω IHF)	11.2 dBf, 1.0 µV (75 Ω IHF)
FM Stereo	17.2 dBf, 2.0 µV (75 Ω IHF)	17.2 dBf, 2.0 µV (75 Ω IHF)	17.2 dBf, 2.0 µV (75 Ω IHF)	17.2 dBf, 2.0 µV (75 Ω IHF)	17.2 dBf, 2.0 µV (75 Ω IHF)	17.2 dBf, 2.0 µV (75 Ω IHF)	FM Stereo	17.2 dBf, 2.0 µV (75 Ω IHF)	17.2 dBf, 2.0 µV (75 Ω IHF)	17.2 dBf, 2.0 µV (75 Ω IHF)
AM	30 µV	30 µV	30 µV	30 µV	30 µV	30 µV	AM	30 µV	30 µV	30 µV
S/N Ratio										
FM Mono	73 dB	73 dB	73 dB	73 dB	76 dB	73 dB	FM Mono	73 dB (IHF-A)	73 dB (IHF-A)	76 dB (IHF-A)
FM Stereo	67 dB	67 dB	67 dB	67 dB	67 dB	67 dB	FM Stereo	67 dB (IHF-A)	67 dB (IHF-A)	70 dB (IHF-A)
AM	40 dB	40 dB	40 dB	40 dB	40 dB	40 dB	AM	40 dB	40 dB	40 dB
THD							THD			
FM Mono/FM Stereo/AM	0.2 %/0.3 %/0.7 %	0.2 %/0.3 %/0.7 %	0.2 %/0.3 %/0.7 %	0.2 %/0.3 %/0.7 %	0.2 %/0.3 %/0.7 %	0.2 %/0.3 %/0.7 %	FM Mono	0.2 %	0.2 %	0.15 %
FM Stereo Separation	45 dB at 1 kHz	45 dB at 1 kHz	45 dB at 1 kHz	45 dB at 1 kHz	45 dB at 1 kHz	35 dB at 1 kHz	FM Stereo	0.3 %	0.3 %	0.25 %
	30 dB at 100 Hz-10 kHz	30 dB at 100 Hz-10 kHz	30 dB at 100 Hz-10 kHz	30 dB at 100 Hz-10 kHz	30 dB at 100 Hz-10 kHz	30 dB at 100 Hz-10 kHz	AM	0.7 %	0.7 %	0.7 %
GENERAL							FM Stereo Separation	45 dB at 1 kHz	45 dB at 1 kHz	45 dB at 1 kHz
Dimensions (W x H x D)	435 x 81 x 366 mm	435 x 101 x 427.5 mm	155 x 172.5 x 289.5 mm	435 x 81.5 x 382 mm	435 x 81 x 377 mm	203 x 270 x 234 mm	Dimensions (W x H x D)	205 x 91 x 302 mm	155 x 94 x 286 mm	435 x 150 x 322 mm
Weight	7.0 kg	8.8 kg	3.5 kg	7.0 kg	6.5 kg	4.2 kg	Weight	3.4 kg	3.0 kg	8.3 kg
DVD SECTION										
DV-L5							HARD-DISK MUSIC LIBRARY			
Power Supply	230-240 V AC, 50 Hz	230-240 V AC, 50 Hz	230-240 V AC, 50 Hz	—	100-240 V AC, 50/60 Hz	—	Hard-Disk Capacity	20 GB		
Power Consumption	120 W	170 W	33 W	—	12 W	—	Long Mode	450 Hours (MP3/96 kbps)		
Signal Readout System	Optical non-contact	Optical non-contact	Optical non-contact	—	Optical non-contact	—	Standard Mode	350 Hours (MP3/128 kbps)		
Linear Velocity							Hi-Quality Mode	230 Hours (MP3/192 kbps)		
Single Layer/Dual Layer	3.49 ms/3.84 ms	3.49 ms/3.84 ms	3.49 ms/3.84 ms	—	3.49 ms/3.84 ms	—	Super Hi-Quality Mode	35 Hours (PCM)		
Frequency Range (Digital Audio)							Frequency Response	5 Hz-20 kHz (± 1.0 dB)		
DVD Linear Sound	10 Hz-44 kHz (96 kHz)	4 Hz-22 kHz (48 kHz)	10 Hz-44 kHz (96 kHz)	—	4 kHz-44 kHz (48 kHz)	—	THD	0.007 %		
Audio CD							Dynamic Range	90 dB		
Harmonic Distortion (1 kHz)	0.025 %	0.025 %	0.01 %	—	0.015 %	—	S/N Ratio	90 dB		
Audio Dynamic Range	93 dB	93 dB	96 dB	—	96 dB	—	Channel Separation	90 dB at 1 kHz		
S/N Ratio	100 dB	100 dB	100 dB	—	100 dB	—	Output Level	2.0 V RMS		
Wow and Flutter	Below threshold of measurability	Below threshold of measurability	Below threshold of measurability	—	Below threshold of measurability	—	Output Impedance	470 Ω		
Video Output	1.0 V p-p, 75 Ω, negative sync, pin jack x 1, SCART x 1	1.0 V p-p, 75 Ω, negative sync, pin jack x 1	1.0 V p-p, 75 Ω, negative sync, pin jack x 1	—	1.0 V p-p, 75 Ω, negative sync, pin jack x 1, SCART x 1	—	Power Supply	100-240 V AC, 50/60 Hz		
S-Video Output	(Y) 1.0 V p-p, 75 Ω, (C) 0.286 V p-p, 75 Ω, negative sync, Mini DIN 4-pin x 1, SCART x 1	(Y) 1.0 V p-p, 75 Ω, (C) 0.286 V p-p, 75 Ω, negative sync, Mini DIN 4-pin x 1, SCART x 1	(Y) 1.0 V p-p, 75 Ω, (C) 0.286 V p-p, 75 Ω, negative sync, Mini DIN 4-pin x 1, SCART x 1	—	(Y) 1.0 V p-p, 75 Ω, (C) 0.286 V p-p, 75 Ω, negative sync, Mini DIN 4-pin x 1, SCART x 1	—	Power Consumption	24 W		
RGB Video Output	0.7 V p-p, 75 Ω, SCART x 1	0.7 V p-p, 75 Ω, SCART x 1	0.7 V p-p, 75 Ω, SCART x 1	—	0.7 V p-p, 75 Ω, SCART x 1	—	Sampling Rate Conversion	32/44.1/48 kHz		
Audio Output							GENERAL			
Optical Audio	-22.5 dBm x 1	-22.5 dBm x 1	-22.5 dBm x 1	—	-22.5 dBm x 1	—	Dimensions (W x H x D)	435 x 81 x 348 mm		
Digital Audio	0.5 V p-p, 75 Ω	0.5 V p-p, 75 Ω	0.5 V p-p, 75 Ω	—	0.5 V p-p, 75 Ω	—	Weight	5.0 kg		
Analog Audio	2.0 V RMS, 470 Ω, pin jack (L/R) x 2	2.0 V RMS, 470 Ω, pin jack (L/R) x 2	2.0 V RMS, 470 Ω, pin jack (L/R) x 2	—	2.0 V RMS, 470 Ω, pin jack (L/R) x 2	—				
Supplied Accessories	SCART cable x 1, Remote control (RC-505M) x 1	SCART cable x 1, Remote control (RC-484M) x 1	SCART cable x 1, Remote control (RC-505M) x 1	—	Remote control (RC-535) x 1	—	CD PLAYERS			
					Audio/Video cable x 1, S-Video cable x 1, SCART cable x 1, Remote control (RC-454S) x 1	—	C-705TX			
Signal Readout System	Optical non-contact	Optical non-contact	Optical non-contact	Optical non-contact	Optical non-contact	Optical non-contact	Digital Filter	352.8 kHz, 8 x oversampling		
Reading Rotation	About 200-500 r.p.m. (Constant linear velocity)	About 200-500 r.p.m. (Constant linear velocity)	About 200-500 r.p.m. (Constant linear velocity)	About 200-500 r.p.m. (Constant linear velocity)	About 200-500 r.p.m. (Constant linear velocity)	About 200-500 r.p.m. (Constant linear velocity)	Frequency Response	5 Hz-20 kHz		
Linear Velocity	3.49 ms (Single Layer), 3.84 ms (Dual Layer)	3.49 ms (Single Layer), 3.84 ms (Dual Layer)	3.49 ms (Single Layer), 3.84 ms (Dual Layer)	3.49 ms (Single Layer), 3.84 ms (Dual Layer)	3.49 ms (Single Layer), 3.84 ms (Dual Layer)	1.2-1.4 ms	S/N Ratio	90 dB		
Error Correction System	Reed Solomon Product Code	Reed Solomon Product Code	Reed Solomon Product Code	Reed Solomon Product Code	Reed Solomon Product Code	Cross Interleave Reed Solomon Code	Dynamic Range	96 dB		
DAC	96 kHz/24-Bit	96 kHz/24-Bit	96 kHz/24-Bit	96 kHz/24-Bit	96 kHz/24-Bit	1-Bit	THD (1 kHz)	0.005 %		
Number of Channels	2 (stereo)	2 (stereo)	2 (stereo)	2 (stereo)	2 (stereo)	2 (stereo)	Channel Separation (1 kHz)	85 dB		
Digital Filter	352.8 kHz, 8 x oversampling	352.8 kHz, 8 x oversampling	352.8 kHz, 8 x oversampling	352.8 kHz, 8 x oversampling	352.8 kHz, 8 x oversampling	Below threshold of measurability	Wow and Flutter	Below threshold of measurability		
Frequency Response	4 Hz-44 kHz	4 Hz-44 kHz	4 Hz-44 kHz	4 Hz-44 kHz	4 Hz-44 kHz	5 Hz-20 kHz	Dimensions (W x H x D)	205 x 91 x 275 mm		
Wow and Flutter	Below threshold of measurability	Below threshold of measurability	Below threshold of measurability	Below threshold of measurability	Below threshold of measurability	Below threshold of measurability	Weight	2.2 kg		
USB SECTION							CD PLAYERS			
Sampling Rate (input)	—	—	—	—	—	—	C-701A			
Frequency Response	—	—	—	—	—	—	Digital Filter	352.8 kHz, 8 x oversampling		
GENERAL							Frequency Response	5 Hz-20 kHz		
Dimensions (W x H x D)	—	—	—	—	435 x 81 x 359 mm	—	S/N Ratio	92 dB		
Weight	—	—	—	—	3.9 kg	—	Dynamic Range	96 dB		
							THD (1 kHz)	0.005 %		
							Channel Separation (1 kHz)	85 dB		
							Wow and Flutter	Below threshold of measurability		
							Dimensions (W x H x D)	435 x 91 x 308 mm		
							Weight	4.1 kg		
							DX-7333			
							Digital Filter	352.8 kHz, 8 x oversampling		
							Frequency Response	5 Hz-20 kHz		
							S/N Ratio	90 dB		
							Dynamic Range	96 dB		
							THD (1 kHz)	0.005 %		
							Channel Separation (1 kHz)	85 dB		
							Wow and Flutter	Below threshold of measurability		
							Dimensions (W x H x D)	435 x 131 x 433 mm		
							Weight	6.9 kg		
							DX-C380			

*Calculated on basis of IHF Dynamic headroom

SPECIFICATIONS

A/V SURROUND PROCESSOR	ED-205	CD RECORDERS	CDR-205TX	CDR-201A	DX-R700		
Power Output (6 Ω, 1 kHz, DIN)	22 W/22 W	Signal Readout System	Optical non-contact	Optical non-contact	Optical non-contact		
Center/Rear		Reading Rotation	About 200-550 RPM	About 200-550 RPM	About 200-550 RPM		
THD (Rated Power)	0.8 %/0.8 %	Liner Velocity	1.2-1.4 m/s	1.2-1.4 m/s	1.2-1.4 m/s		
Center/Rear		Digital Filter	128 x oversampling	8 x oversampling	128 x oversampling		
Sensitivity and Impedance		Frequency Response	5 Hz-20 kHz	10 Hz-20 kHz	5 Hz-20 kHz		
Audio Processor Input	300 mV 50 kΩ	THD					
Video-1/2 Input	300 mV 50 kΩ	Playback (1 kHz)	0.004 %	0.012 %	0.004 %		
Multichannel Input	300 mV 50 kΩ	Recording (1 kHz)	0.006 %	0.015 %	0.006 %		
Processor Output	300 mV 1 kΩ	DYNAMIC RANGE					
Video-2 Output	300 mV 2.2 kΩ	Playback	98 dB	98 dB	98 dB		
Video	Composite 1.0 V p-p 75 Ω	Recording	92 dB	92 dB	92 dB		
Video-1/2 Input	S-Video (C) 0.28 V p-p 75 Ω,	S/N RATIO					
	(Y) 1.0 V p-p 75 Ω	Playback	98 dB	98 dB	98 dB		
Video-2 Output	Composite 1.0 V p-p 75 Ω	Recording	94 dB	82 dB	94 dB		
	S-Video (C) 0.28 V p-p 75 Ω,	CHANNEL SEPARATION	90 dB	75 dB	90 dB		
	(Y) 1.0 V p-p 75 Ω	WOW AND FLUTTER					
Monitor Output	Composite 1.0 V p-p 75 Ω	Output Level	Below threshold of measurability	Below threshold of measurability	Below threshold of measurability		
	S-Video (C) 0.28 V p-p 75 Ω,	POWER SUPPLY	2.0 V RMS	2.0 V RMS	2.0 V RMS		
	(Y) 1.0 V p-p 75 Ω	POWER CONSUMPTION	230 V AC, 50 Hz	230 V AC, 50 Hz	230 V AC, 50 Hz		
FREQUENCY RESPONSE		DIMENSIONS (W x H x D)	12 W	11 W	12 W		
Center	20 Hz-20 kHz (± 1 dB)	WEIGHT	205 x 76 x 350 mm	155 x 94 x 307 mm	435 x 91 x 314 mm		
Rear	100 Hz-7 kHz (± 1 dB)	SUPPLIED ACCESSORIES	2.5 kg	2.8 kg	4.2 kg		
S/N RATIO (IHF-A)			Analog audio cable x 2,	Analog audio cable x 2,	Analog audio cable x 2,		
Center/Rear	80 dB/75 dB		Digital optical cable x 1,	Digital optical cable x 1,	Digital optical cable x 1,		
Dimensions (W x H x D)	205 x 76 x 350 mm		Remote control x 1	Remote control x 1	Remote control x 1		
Weight	3.7 kg						
CASSETTE DECKS	K-505TX	K-501A	TA-RW244	INTEGRATED AMPLIFIER	A-9211	TUNER	T-4211
Wow and Flutter (WRMS)	0.1 %	0.1 %	0.08 %	Power Output (4 Ω, 1 kHz, DIN)	60 W/C		
FREQUENCY RESPONSE				DYNAMIC POWER*	80 W/C/85 W/C		
METAL	20 Hz-16 kHz (30 Hz-15 kHz ± 3 dB)	30 Hz-15 kHz (± 3 dB)	20 Hz-17 kHz (30 Hz-16 kHz ± 3 dB)	THD (Rated Power)	0.08 %		
HIGH	20 Hz-15 kHz (30 Hz-14 kHz ± 3 dB)	30 Hz-14 kHz (± 3 dB)	20 Hz-16 kHz (30 Hz-15 kHz ± 3 dB)	DAMPING FACTOR (8 Ω, 1 kHz)	60		
NORMAL	20 Hz-14 kHz (30 Hz-13 kHz ± 3 dB)	30 Hz-13 kHz (± 3 dB)	20 Hz-15 kHz (30 Hz-14 kHz ± 3 dB)	Sensitivity and Impedance			
S/N RATIO (METAL, Dolby® NR off)	54 dB	54 dB	58 dB	Phono MM	2.5 mV (47 kΩ)		
HEADS				CD, Tuner, Tape Play	150 mV (25 kΩ) (TONE)		
Rec & Pb	Special hard permalloy x 1	Special hard permalloy x 1		DAT/Tape Rec	150 mV (3 kΩ)		
Erase	Ferrite x 1	Ferrite x 1					
MOTORS	DC servo motor x 1	DC servo motor x 1	DC servo motor x 2	TONE CONTROLS			
Dimensions (W x H x D)	205 x 76 x 278 mm	155 x 94 x 303 mm	435 x 121 x 305 mm	Bass	± 8 dB at 100 Hz		
Weight	2.6 kg	2.5 kg	5.2 kg	Treble	± 8 dB at 10 kHz		
				Loudness	± 8 dB at 100 Hz/ + 2 dB at 10 kHz		
speakers	D-N5TX	D-032A	D-N3X	SKS-101	SKW-205		
Type	2-Way, Bass Reflex	2-Way, Bass Reflex	2-Way, Bass Reflex	Center Speaker	Surround Speaker		
Woofer	12 cm OMFR Cone	12 cm Bio-Hybrid Cone	12 cm OMFR Cone	Dual Full Range, Bass Reflex	Full Range, Air Suspension		
Tweeter	2.5 cm Balanced-Dome	2.5 cm Soft-Dome	2.5 cm Soft-Dome	Full Range 10 cm Cone x 2	Full Range 10 cm Cone		
FREQUENCY RESPONSE	50 Hz-40 kHz	55 Hz-35 kHz	60 Hz-35 kHz	63 Hz-20 kHz	100 Hz-20 kHz		
Crossover Frequency	7.5 kHz	3 kHz	10 kHz	—	—		
Sensitivity	87 dB/W/m	87 dB/W/m	84 dB/W/m	87 dB/W/m	83 dB/W/m		
Max. Power	70 W	70 W	70 W	100 W	100 W		
Nominal Impedance	6 Ω	6 Ω	5 Ω	6 Ω	6 Ω		
Input Impedance	—	—	—	—	—		
Dimensions (W x H x D)	147 x 253 x 249 mm	153 x 259 x 246 mm	130 x 220 x 216 mm	435 x 125 x 165 mm	125 x 217 x 145 mm		
Weight	2.7 kg	3.8 kg	2.9 kg	2.6 kg	1.2 kg		
speakers	D-052TX/D-052AX	D-L5	SL-105	D-N1	D-M3	D-M7	SWA-155X
Type	2-Way, Bass Reflex	Full Range, Bass Reflex	Bass Reflex	2-Way, Bass Reflex	Full Range, Bass Reflex	Full Range, Bass Reflex	Bass Reflex Powered
Woofer	13 cm OMFR Cone	8 cm Cone	20 cm Cone	9 cm OMFR Cone	Full Range 8 cm OMFR Cone	Full Range 8 cm OMFR Cone	16 cm OMFR Cone
Tweeter	2.5 cm Soft-Dome	—	—	2.5 cm Soft-Dome	—	—	—
FREQUENCY RESPONSE	55 Hz-35 kHz	125 Hz-25 kHz	30 Hz-200 Hz	63 Hz-35 kHz	125 Hz-25 kHz	80 Hz-25 kHz	35 Hz-150 Hz
Crossover Frequency	2.5 kHz	—	50 Hz-200 Hz	3 kHz	—	—	—
Sensitivity	85 dB/W/m	83 dB/W/m	1.8 V (Speaker input), 59 mV (Line input)	83 dB/W/m	80 dB/W/m	80 dB/W/m	500 mV (Line input)
Max. Power	70 W	40 W	60 W	30 W	30 W	40 W	25 W
Nominal Impedance	4 Ω	6 Ω	5 Ω	4 Ω	6 Ω	6 Ω	—
Input Impedance	—	—	4.7 kΩ/Speaker, 12 kΩ/Line	—	—	—	50 kΩ
Dimensions (W x H x D)	162 x 284 x 232 mm	85 x 120 x 112 mm	235 x 416 x 404 mm	165 x 271 x 160 mm	85 x 120 x 112 mm	102 x 210 x 142 mm	185 x 299 x 312 mm
Weight	3.9 kg	0.7 kg	12.5 kg	1.7 kg	0.7 kg	1.1 kg	8.0 kg
Power Consumption							65 W
AMPLIFIER SECTION							
Power Output (3 Ω, DIN)	—	—	—	—	—	—	11 W/C (front/center/surround), 20 W (subwoofer)
THD (Rated Power/1 W Output)	—	—	—	—	—	—	10 %/0.2 %
Frequency Response	—	—	—	—	—	—	20 Hz-30 kHz (± 0.8 dB)
S/N Ratio	—	—	—	—	—	—	100 dB (IHF-A)

*Calculated on basis of IHF Dynamic headroom

THX SURROUND EX™

THX® SURROUND EX™

It's called THX® Surround EX™—"EX" because it extends the 5.1-channel format by adding another channel of information between the left and right surround channels. This lets movie sound mixers place sound behind you, not just to the sides as in a standard cinema.



THX® ULTRA2

Receivers that bear this badge of honor give you the new reference standard in home entertainment performance. You're provided with ultimate eight-channel (7.1) playback of any 5.1 multi-channel program—enjoy reference-standard playback of music as well as movies. In addition, the video switching handles all wide-bandwidth sources, such as HDTV and progressive scan, without any picture degradation.

THX® ULTRA AND THX® SELECT

THX®, the inspiration of George Lucas, was originally created as a studio-reference monitoring tool. Both THX® Ultra and THX® Select guarantee you superior performance and ensure accurate reproduction of the movie-theater experience in the home. And both require the receiver's built-in amplifiers to meet rigorous guidelines for sound purity and power output. The difference: the THX® Select standard is for a 2,000 cubic-foot room, while the THX® Ultra standard is for a 3,000+ cubic-foot room.



DOLBY® DIGITAL EX™

Dolby® Digital EX™ creates six full-bandwidth output channels from 5.1-channel sources. This is done using a matrix decoder that derives three surround channels from the two in the original recording. For best results, Dolby® Digital EX™ should be used with movie soundtracks recorded with Dolby® Surround EX™.

DOLBY® DIGITAL AND DOLBY® PRO LOGIC™ II

Dolby® Digital, with 5.1 (6) discrete channels, is the designated multichannel format for DVD-Video, HDTV, and select satellite TV broadcasts. Dolby® Pro Logic™ II, the newest format, creates a quasi-5.1-channel experience with stereo, full-bandwidth surround channels (as opposed to plain Dolby® Pro Logic™'s single, mono surround channel), from Dolby® Surround film soundtracks and stereo music sources.



DTS® (DIGITAL THEATER SYSTEMS) FORMATS

There are two DTS®-ES™ (Extended Surround) formats: DTS®-ES™ Discrete 6.1 and DTS®-ES™ Matrix 6.1. The DTS®-ES™ Discrete 6.1 format is, as the name implies, a 6.1-channel system, with a discrete back surround channel, while DTS®-ES™ Matrix 6.1, like Dolby® Digital Surround EX™, provides a matrix-encoded back surround channel. There's also DTS® Neo:6, which derives a 6-channel surround output from a stereo soundtrack, and regular DTS®, which, like Dolby® Digital, is a discrete 5.1-channel system, but uses less compression than Dolby® Digital.

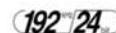
DTS® 96/24

This new format offers you the sound quality of the original 96/24 master. Also, you won't have to worry about buying a new DVD player. DTS® 96/24 can be carried on DVD-Video, or in the video zone of DVD-Audio, which makes it playable on all DVD players.

CINEMA FILTER

CINEMA FILTER™

The tonal balance of a film soundtrack can be edgy and bright when played back over audio equipment in your home—this is because film soundtracks are designed to be played back in large theaters, using commercial equipment. Onkyo has developed its own solution that restores the correct tonal balance of a movie soundtrack in the smaller environs of your home theater.



192kHz/24-Bit DACs

Costly, extremely powerful D/A converters for all six main channels in our top receivers. They not only boast a dynamic range of 120dB, they process information faster and are virtually resistant to clock jitter, to ensure the best possible performance from DVD-Audio, DVD-Video and audio CD.

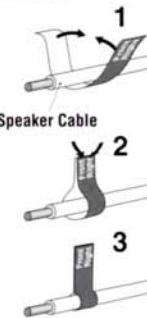


POWERED ZONE 2

You don't need an external amplifier to enjoy a stereo audio source (radio, CD, MD, LP or cassette) in the main room, while at the same time someone else listens to a different stereo source in another room.

COLOR-CODED SPEAKER TERMINALS

Speaker Cable	Color	Terminal
1	White	Post (+)
2	Red	Post (-)
3	Blue	Post (+)
4	Gray	Post (-)
5	Green	Post (+)
6	Dark Brown	Post (-)
7	Light Brown	Post (+)



These color-coded speaker terminals take the guesswork out of matching wires to the correct terminals. Simply attach the color-coded label to the speaker cable, and attach the cable to the same-colored speaker terminal for easy speaker connection.

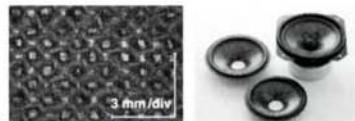
CROSSOVER ADJUSTMENT

Previously, crossover frequency was fixed at 80 Hz. With crossover adjustment, you can set the frequency at 40/60/80/100/120/150 Hz, depending on your receiver and speakers' bass playback ability. This lets you more accurately match the performance characteristics of the subwoofer to your front speakers.



ONKYO MICRO FIBER

The Onkyo Micro Fiber (OMF) speaker cone is considered to be one of the major advancements in driver design. Utilizing pure cotton weave, Onkyo OMF cones feature excellent vibration-absorbing characteristics and a thin yet rigid flexing diaphragm which results in an extremely fast and accurate transient response (the cone's ability to quickly start and stop). All of this adds up to improved midrange clarity and imaging, for astonishingly vivid, natural sound.



ONKYO®

IMAGINATIVE SIGHT & SOUND

Due to a policy of continuous product improvement, Onkyo reserves the right to change specifications and appearance without prior notice. Some models are available in both black and silver, depending on area where sold. Your authorized Onkyo dealer has details.

AC power supply varies on certain models. Check with your local Onkyo dealer for the correct power supply in your area.

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